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FIGURE 1302B

TAATCGGGTACATGTTACTGTAATTAACCTCATTGCACCTTCAAAACCTAAGCTTCCATCCTGAATTTATCAAGTAGT
TCAGTATTGTCATTTGTTTTGTTTTATTGAAAAGTAATGTTGTCTTAAGATTAGAAAGTGATTATTAGCTTGAG
AACTATTACCCAGCTCTAAGCAAATAATGATTGTATACATATTAAGATAATGGTTAAATGCGGTTTTACCAAGTT
TTCCCTTGAAAATGTAATTCCTTTATGGAGATTTATTGTGCAGCCCTAAGCTTCCTTCCCATTTCATGAATATAA
GGCTTCTAGAATTGGACTGGCAGGGGAAAGAATGGTAGAGACAGAAATTAAGACTTTATCCTTGTTTGCTTGTA
ACTATTATTTTCTTGCTAATGTAACATTTGTCTGTTCCAGTGATGTAAGGATATTAAGTTATTAAGCTAAATATT
AATTTTCAAAAATAGTCCTTCTTTAAGTTAGATATTTTCATAGCTGGATTTAGGAAGATCTGTTATTCTGGAAGTA
CTAAAAGAATAATACAACGTACAATGTCTGCATTCACTAATTCATGTTCCAGAAGAGGAAATAATGAAGATATA
CTCAGTAGAGTACTAGGTGGGAGGATATGGAAATTTGCTCATAAAATCTCTTATAAAACGTGCATATAACAAAAT
GACACCCAGTAGGCCTGCATTACATTTACATGACCGTGTTATTTGCCATCAAAATAAAGTACTGAGTACTGACACCAG
ACAAAGACTCCAAAGTCATAAAATAGCCTATGACCAACTGCAGCAAGACAGGAGGTCAGCTCGCCTATAATGGTG
CTTAAAGTGATGATTGATGTAATTTCTGTACTCACCATTTGAAGTTAGTTAAGGAGAACTTTATTTTTTTAAAAA
AAGTAAATGGCAACCACTAGTGTGCTCATCCTGAAGTGTACTCCAAATCCACTCCGTTTTTAAAGCAAAATTAT
CTTGATGATTTTAAAGAAAGAGTTTTCTATTTATTTAAGAAAGTAACAATGCAGTCTGCAAGCTTTTCAGTAGTTTT
CTAGTGCTATATTCATCCTGTAAACTCTTACTACGTAACCAGTAATCACAAGGAAAGTGTCCTTTTGTCATATT
TCTTTAAATTTCTTTCTTTGGAAAGTATGATGTTGATAATTAAGTTACCTTATCTGCCAAAACAGAGCAAAAT
GCTAAATACGTTATTGCTAATCAGTGGTCTCAAATCGATTTGCCTCCCTTTGCCTCGTCTGAGGGCTGTAAGCCT
GAAGATAGTGGCAAGCACCAAGTCAGTTTCCAAAATTGCCCTCAGCTGCTTTAAGTGACTCAGCACCTGCCTC
AGCTTCAGCAGGCGTAGGCTCACCTGGGCGGAGCAAAGTATGGGCCAGGGAGAACTACAGCTACGAAGACCTGC
TGTCGAGTTGAGAAAAGGGGAGAAATTTATGGTCTGAATTTTCTAACTGTCTCTTTCTTGGGTCTAAAGCTCATA
ATACACAAAGGCTTCCAGACCTGAGCCACACCCAGGCCCTATCCTGAACAGGAGACTAAACAGAGGCAAATCAAC
CCTAGGAAATACCTTGCACTTCTGCCCTACGGTTAGTACCAGGACTGAGGTCATTTCTACTGGAAAAGATTGTGAGA
TTGAACCTTATCTGATCGCTTGAGACTCCTAATAGGCAGGAGTCAAGGCCACTAGAAAATTGACAGTTAAGAGCCA
AAAGTTTTTTAAATATGCTACTCTGAAAAATCTCGTGAAGGCTGTAGGAAAAGGGAGAATCTTCCATGTTGGTGT
TTTTCTGTAAAGATCAGTTTGGGGTATGATATAAGCAGGTATTAATAAAAAATAACACACCAAAGAGTTACGTAA
AACATGTTTTTATTAATTTTGGTCCCCACGTACAGACATTTTATTTCTATTTTGAATGAGTTATCTATTTTCATA
AAAGTAAACACTATTAAAGTGCTGTTTTATGTGAAATAACTTGAATGTTGTTTCTATAAAAAATAGATCATAAC
TCATGATATGTTTGTAATCATGGTAATTTAGATTTTTATGAGGAATGAGTATCTGGAAATATTGTAGCAATACTT
GGTTTTAAATTTTGGACCTGAGACACTGTGGCTGTCTAATGTAATCCTTTAAATTTCTCTGCATTGTCAGTAAA
TGTAGTATATTATTGTACAGCTACTCATAATTTTTTAAAGTTTATGAAGTTATATTTATCAAATAAAAACTTTCC
TATAT

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FIGURE 1303

MQFRECSINGMKYQEINGRLVPEGPTPDSSEGNLSYLSSLSHLNNLSHLTTSSSFRTSPENETELIKEHDLFFKA
VSLCHTVQISNVQTDCTGDGPWQSNLAPSQLLEYASSPDEKALVEAAARIGIVFIGNSEETMEVKTLGKLERYKL
LHILEFDSDRRRMSVIVQAPSGEKLLFAKGAESSILPKCIGGEIEKTRIHVDEFALKGLRTLCAIYRKFTSKEYE
EIDKRIFEARTALQQREEKLAAVFQFIEKDLILLGATAVEDRLQDKVRETIEALRMAGIKVWVLTGDKHETAVSV
SLSCGHFHRTMNILELINQKSDSECAEQLRQLARRITEDHVIQHGLVVDGTSLSLALREHEKLFMEVCRNC SAVL
CCRMAPLQKAKVIRLIKISPEKPITLAVGDGANDVSMIQEAHVIGIGIMGKEGRQAARNSDYAIARFKFLSKLLFV
HGHFYYIRIATLVQYFFYKNVCFITPQFLYQFYCLFSQQTLYDSVYLTLYNICFTSLPILIYSLLEQHVDPHVLQ
NKPTLYRDISKNRLLSIKTFLYWTILGFSHAFIFFFGSYLLIGKDTSLGNGQMEGNWTFGLVFTVMVITVTVK
MALETHFWTWINHLVTWGSIIIFYFVFSLFYGGILWPFLGSQNMVFVFIQLLSGSAAWFIIILMVVTCFLDIIKK
VFDRHLHPTSTEKALQTLTETNAGIKCLDSMCCFPEGEAACASVGRMLERVIGRCSPTHISRSWSASDPFYTNDRSI
LTLSTMDSSC

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FIGURE 1304

TTTAGCAGTCTGTGATGATCAGCAAAAAAGCACATAAAGTAAAAATTAGTTGACCATGCTAAATTCAATTCTGGA
ATTTTTTTTTTATTTGGGCATTTCTAGAACTTTTTACATTTGAAAGTACATGATGAGTATTAGTAACGATGACTTA
TGTATAATCAGAATCTTTATGACAATTTAGTTTTACAAGGTCAGAAGAGATGAGTTTGCTAAACCCAGCTGTGAT
ACCTCAGTTGGAAAGGGAATTCAAAGGTATGCTTTGTAGAACAGAAAAGTATAGTTTTTTTTTTCATGAACTTTAA
TCATTTTCTGTTTTTCTCTATGTGAGTCAGCTACAAAAGTGGTCTAATTTTTTACAACAGTAGAACTTCCTCCTT
TTCTACTGTAATCTTCCCACTGACTTTACTGCACAGGTATGAAATACTAGTGTATTGGATCTTCAGTAACCTTTT
TATTTCCCTAGATGATTGAAATATAGGTATTTACTCCATTTAAACCAGGTGATAAGATGATGTAAATACTCAGGGA
GGGTATTAACCTTGTTACTTTTGCTCGTTTGGGGTGTAAGTGCCATGACTGAATAATCTTCAATTCATGATTCTA
GAGTAAGTTTAAATTTGGAAAAAGGGGCTTCACACATGGTGGTGGTTGAACATTGATTCTTTTATACTTAAAAAGA
TGAAAATGTTTTGTGGACTGATACATTTTATCTTACTGAATATGAATTGTTTATGTATCTCTACTGTCAAATAGC
CTTTTTGAACTCAGGAAAGACAAAGGTTCAATTACACCACCTTTTGTCAATAAGCAAACCCAGGTATTTTTTTTTT
CTCCTGTTGTCTGGATATGGCAATAGATTTTTTAAATTGCTGTGAGAACCCATATATGAAAAGAGAGGAGTTGAA
TTGTGTGTGCCTTTTATGTCTTGAGATTTATATGTGGAAAAGACGACATCTACTTCAAACCTGTATTTTTTTCGTT
TTTTTTTTTTTTTGGGGAAGGGGGGAGAACGGGGTCTTGCTCTGTGCGCCAGGCTGGAGTGCAGTGGCGCGATCT
CAGCTGACTGCAACCTCCACCTCCCGGGTTCAAGGGATTCTGCCTCAGCCTCCCGAGTAGCTGAGACCACAGGTG
CGTGCCACCACACCCGGCTAATTTTTTGTATTTTTTAGTAGAGACGGGGTTTAGTAGAGACGGATCACTCCTGAC
CACGTGATCCGCCCACCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCACCCCGGCCTGTATTTT
CAGAGAGGAGAGCTTGGTGTTTTTGTGGTGCCAAGTGGTAAGATAATGTCTCTTTGAGGCTTCCTATGGACTGCC
TTTATTTTAGTAACTCAAGACACCAGTTAACCTCAACAGAGTTTTGGCCTTATTAGAATTTGTGTGCATCTTA
TTGAAAGCCAGGTTTACATCACCTCACCCCATTTATCTTTTTTAGTTAAATAAATTTACCATGCCAAGTAACCAGA
ATGGAGCAAATTTGGTTGATCTTTAAGGCAGTAGGTTTGACTAGCTAGCTATCATTATTGTCACATCTAATGCTAG
GCACCAGAAACCATTTGAGCCAGGAGTGTGAATGAATAATTCAGAGACACTTTAGACATTTTTTAATGTTTTAT
ATGAACATTTTACATTTGTGTGATTGCCTTAGATATTAAATTTTCCCTAGTGCTGATAAAAACAGCAACATTCATA
ACTTATTTTATATATTGTTCCAAAGAAAAGAATTTGTTTTAATGGTTTCAAATAACTGCACCTGAATTTGTTTA
TGTGCCTTAAGTTCTCTAGTGCTATTTCAACTTTTTTTTCAATCTAAATGAAGCTTACCTTAGATAAGGTTTATA
TTTGTTCCTATAGAGTAAATAAACTTCCCTTCTTAAATTGTGTAATAAGCACCAACGTGTGGTTGCTTGGCAG
AATGAGAATGTTAAGGGAGATTGTTGGATGTTTGGAGTTTCATTATATTTTTTGTTTTTATTTTTTGATACCTAG
GTGCTTTTTTAAATATTTCAGACAAATATCTATCTTACATTGATTAAACCCGTGTAAATTCATTTGCAGTATCTAC
ATCGAATGTCAAAAAGTATACTTATTTTTGTTCCATACTTATGTACAATTTTTTCCCTCTTCAGGCTTTTTTCAT
TTACCTTTTTGAAAAAGCACTTACTCTCCCTTCCCTATCACCCCTCCCCAAGGTTTCTTTATTTAAATTTTTA
TTGAGAGTTGTTGGAGCTCTAAGACAATACAAATTTAGAGTTGAACAAAAGTATAATCTGCTTTACAACCTAGTAT
AGACCTAAGGTCATTTGCTTTCAATTAGAGGCTCCAGAGTCTTCATAGTGAAAGAATGCTTTGTATTTAATTGT
TCTTAGTTAAGTTGTAGCACGTGAATACTTACTTACATGTTTTGTTTAAATATACTTCTTGATAGTTTAAATTTT
TTAAAAGTTGTATCTAATAAAATGTCTTTTAACCATTATTACTTGACTATATGGTTGTATTAAATTTTTGTTTACG

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FIGURE 1305

MYLYCQIAFLKLRKDKGSITPLLSISKPGIFFFSCCLDMAIDFLNCCENPYMKREELNCVCLLCLEIYMWKRRHL
LQTVFFSFFFFFFGEGGRTGSCSVAQAGVQWRDLS

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FIGURE 1306

GTCTGGAATCAAGCGAACCATCAAAGAAACCGACCCTGATTACGAGGATGTATCTGTGGCCCTTCCAAATAAGCG
GCATAAAGCAATTGAGAATTCAGCTCGAGATGCTGCTGTGCAGAAGATTGAGACTATTATCAAAGAACAGTTTGC
TCTTGAAATGAAGAATAAGGAACATGAAATTGAAGTCATTGACCAGCGACTGATTGAAGCAAGAAGGATGATGGA
TAAACTGCGTGCCTGCATTGTAGCAAACACTACTATGCTTCTGCAGGTCTTCTAAAAGTTTCTGAGGGATCAAAGAC
ATGTGATACGATGGTTTTTAATCATCCTGCTATCAAGAAATTTTGGAAATCACCATCTAGGTCATCATCTCCTGC
CAATCAGAGAGCAGAAACACCATCAGCCAATCATTAGAAAGTGATTCTTTATCTCAGCACAAATGACTTCTTATC
TGACAAAGATAATAACAGCAATATGGATATAGAGGAAAGACTCTCAAACAACATGGAGCAGAGACCAAGCCGAAA
TACTGGAAGGGATACTTCTAGAAATTACTGGCTCCCATAAAACAGAACAGCGGAATGCTGATCTCACAGATGAGAC
TTCACGACTTTTTGTAAAGAAAACAATAGTAGTGGGCAATGTGTCCAAGTATATACCTCCGGATAAGAGGGAAGA
AAATGACCAGTCAACTCATAAGTGGATGGTATATGTCCGAGGGTCCCGTAGAGAACCCAGCATTAAATCATTTTGT
CAAGAAGGTTTGGTTCTTCCTTCATCCTAGCTATAAACCAATGACCTTGTGGAAGTTAGAGAGCCTCCTTTTCA
CCTGACCAGAAGAGGCTGGGGTGAGTTTCCCGTCAGAGTTCAAGTTCAATTTTAAAGACAGCCAGCTCAAACCACT
CAGCGTAAACACATCTGGAGGGGTGCAGACGATCCTGATGCCTGTGAATAAAGTGGTTCAGTCATTTTCTACCAG
CAAGCCACCTGCCATTCTGCCTGTAGCTGCCCCAACTCCAGTTGTCCCCAGCTCTGCTCCAGCAGCTGTTGCAAA
AGTGAAGACTGAACCAGAAACACCTGGACCGAGTTGCCTCTCTCAGGAGGGTCAGACAGCAGTGAAAACAGAAGA
AAGTTCTGAGCTGGGAACTATGTCAATTAAGATAGACCATTTAGAACTATCCAGCAACTCCTAACTTAGTAAAG
AAGATTCCATTAATCACTGCAAAAAGTGAAGATGCCAGCTGCTTTTCTGCAAAGTCTGTGGAGCAGTACTATGGC
TGGAACATTGGAAAAAGGAGAGCCGCTGAGTGGCAAAGAGCAATGACAATGCGAAAAGTCTTACAAGAAATCCTG
GAGAAGAATCCGAGATTTACACCACTGACTCCCCCTCAAACCAAGCACATCGCTCACTGGTGCCGCTGTCATGGC
TACACCCACCGGACCCTGAGAGCCTGAGGAATGACGGGGACTCCATCGAGGACGTGCTGACCCAGATCGACAGC
GAGCCCGAGTGCCCATCATCATTCTCCTCTGCTGACAACCTCTGCCGCAAACCTGGAGGACCTGCAACAGTTCCAG
CCCTGGTGACAGAGGAGACCCCGTCTCAAAAATTGATTGATCAATTCAGCATCTGAGGGCTGCAAGTACAGAAGG
AATCTATTCTCAGCAGGGCATAGGGCACGCACTGGCTTAACAGTTTAGTATATAAGGCTCAAATAGTCTATACCT
GAACTGCTATAAGCAAGGTCGATAGGGAAGTGGATAGATTGCTTCAGCAAAGTGAAGTGTGAGATCTCCAGGACA
GAGGGAGAAAGATCTGATCCAAATGAGAACAGATTGGTTATTGCAGGTATCACAGCCTAAAGAAATTATCTTTT
GCAAAAGAAATATTAAATGATTTAGCAGTCTCCACGTGTGTTAATGTTTCAAACGTGTATCATAATGTGTATAAT
TGTGTAACAAAATTGTCTACAATAAATCTTTTGGTATTGT

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FIGURE 1307

MKNKEHEIEVIDQRLIEARRMMDKLRACIVANYYASAGLLKVSEGSKTCDTMVFNHPAIKKFLESPSRSSSPANQ
RAETPSANHSESDSLSQHNDFLSDKDNNNSNMDIEERLSNNMEQRPSRNTGRDTSRITGSHKTEQRNADLTDETSR
LFVKKTIIVVGNVSKYIPDPKREENDQSTHKWMVYVRGSRREPSINHFVKKVWFFLHPSYKPNDLVEVREPPFHLT
RRGWGEFPVRVQVHFKDSQLKPLSVNTSGGVQTIILMPVNKVVQSFSTSKPPAILPVAAPTVPVPSSAPAAVAKVK
TEPETPGPSCLSQEGQTAVKTEESSELGNYVIKIDHLETIQQLT

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FIGURE 1308

ATGTCTAGAGCCCTTGATGTCCTGCAAATGAAGGAGGAGGATGTCCTTAAGTTCCTTGCAGCAGGAACCCACTTA
GGTGGTACCAACCTTGACTTCCAAATGGACAATACTGGCCAGAGGGCTGTGCTGAAGTTTGCTGCTGCCACTGGA
GCCACTCAAATTGTTGGCCGCTTCACTCCTGGAACCTTCACTAGCCAGACCCAGGCAGCCTTCAGGGAGCCACGG
CTTCTAGTGGTTACTGATCCCAGGGCTGACCACCAGCCTCTCACAGAGACATCTTATGTTAACCTACCTACCATT
GCTCTATGTCACACAGATTTTCCTCTGCGCTATGTGGACATTGCCATCACATGCAACAACAAGGGAGCTCCCTCA
GTGGGTCCGAGCTGGTGGATGCTGGCCCTGGAAGTTCTGCGCGTGTGTGGCACCATTTCCTCGAACACCCATGG
GAGGTCATGCCTGATCTCTACTTCTACAGAGATCCTGAAGAGATTGGAAAAGAGGAGCAGGTTGCTGCTGAAAAG
ACTGTGACCAAGGAGGAATTTCAAGGGCAAATGGACTGCTCCAGCTCCTGAGTTCACCGCTATTCAGCCTGAGGTT
GGAGACTGGTCTGATGGTGTACAGGTGCCCTCTGTGCCTATTCATCAGGTCCCTACTGAAGACTGGAGTGCTCAG
CCTGCCACAGAAGACTGGTCTGCAGCTCCCACTGCTCAGGCCACTGAATGGGTAGAAACAACCACTGAATGGTCT
TAA

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FIGURE 1309

MSRALDVLQMKEEDVLKFLAAGTHLGGTNLDFQMDNTGQRAVLKFAAATGATQIVGRFTPGTFTSQTQAAFREPR
LLVVTDPRADHQPLTETSYVNLPTIALCHTDPLRYVDIAITCANNKGAPSVGFSWWMLALEVLRVCGTISLEHPW
EVMPDLYFYRDPEEIGKEEQVAAEKTVTKEEFQGKWTAPAPEFTAIQPEVGDWSDGVQVPSVPIHQVPTEDWSAQ
PATEDWSAAPTAAQATEWVETTEWS

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FIGURE 1310

TGCGTGCGGTGGCAGCTTCCTTGCGGAAGTGGTGACCGTGAGAGAAGAAGATGCGCGGCCCTGTAGTGGCGCCGC
CTGGTGTGGTGGTTAGTCGGGCTAACAAAGCGCAGCGGCGCGGGGCCGGGAGGCAGCGGTGGCGGGGGAGCCAGAG
GGGCGGAGGAGGAACCGCCGCCGCCCTACAAGCAGTTCTGGTGGCCGATAGCTTCGATCGCCGCTTCTTCCCCA
TCTCCAAGGACCAGCCTCGGGTCTCTTGCCCCCTGGCCAATGTGGCATTAAATTGACTACACTCTGGAATTCCTGA
CTGCCACAGGTGTACAGGAAACATTTGTCTTTTGTGCTGGAAAGCTGCTCAAATCAAAGAACATTTACTGAAGT
CAAAGTGGTGCCGCCCTACATCTCTCAATGTGGTTCGAATAATTACATCAGAGCTCTATCGATCACTGGGAGATG
TCCTCCGTGATGTTGATGCCAAGGCTTTGGTGCGCTCTGACTTTCTTCTGGTGTATGGGGATGTCACTCTCAAACA
TCAATATCACCAGAGCCCTTGAGGAACACAGGTTGAGACGGAAGCTAGAAAAAATGTTTCTGTGATGACGATGA
TCTTCAAGGAGTCATCCCCCAGCCACCCAACCTCGTTGCCACGAAGACAATGTGGTAGTGGCTGTGGATAGTACCA
CAAACAGGGTTCTCCATTTTCAAGACCCAGGGTCTCCGGCGTTTTGCAATTTCTCTGAGCCTGTTTCAGGGCA
GTAGTGATGGAGTGGAGGTTGATATGATTTACTGGATTGTCAATATCAGCATCTGTTCTCCTCAGGTGGCACAAC
TCTTTACAGACAACTTTACTACAAACTCGAGATGACTTTGTGCGAGGTCTCTTAGTGAATGAGGAGATCCTAG
GGAACCAGATCCACATGCACGTAACAGCTAAGGAATATGGTGCCCGTGTCTCCAACCTACACATGTACTCAGCTG
TCTGTGCTGACGTCACTCCGCCGATGGGTCTACCCCTCTCAGGAGGCGAAGCTTCACTGACAGCACCACCCAGA
GCTGCACTCATTCCCGGCACAACATCTACCGAGGGCCTGAGGTGAGCCTGGGCCATGGCAGCATCCTAGAGGAAA
ATGTGCTCCTGGGCTCTGGCACTGTCAATTGGCAGCAATTGCTTTATCACCACAGTGTCAATTGGCCCCGGCTGCC
ACATTGGTGATAACGTGGTGTGACAGACCTACCTGTGGCAGGGTGTTCGAGTGGCGGCTGGAGCACAGATCC
ATCAGTCTCTGCTTTGTGACAATGCTGAGGTCAAGGAACGAGTGACACTGAAACCACGCTCTGTCTCACTTCCC
AGGTGGTCTGTTGGGCCCAAATATCAGCTGCCTGAGGGCTCGGTGATCTCTTTGCACCCTCCAGATGCAGAGGAAG
ATGAAGATGATGGCGAGTTCAAGTATGATTCTGGGGCTGACCAAGAAAAGGACAAAGTGAAGATGAAAGGTTACA
ATCCAGCAGAAGTAGGAGCTGCTGGCAAGGGCTACCTCTGGAAAGCTGCAGGCATGAACATGGAGGAAGAGGAGG
AACTGCAGCAGAATCTGTGGGGACTCAAGATCAACATGGAAGAAGAGAGTGAAAGTGAAAGTGAGCAAAGTATGG
ATTCTGAGGAGCCGGACAGCCGGGGAGGCTCCCCCTCAGATGGATGACATCAAAGTGTTCCAGAATGAAGTTTTAG
GAACACTACAGCGGGGCAAAGAGGAGAACATTTCTGTGACAATCTCGTCCTGGAAATCAACTCTCTCAAGTATG
CCTATAACGTAAGTCTAAAGGAGGTGATGCAGGTACTGAGCCACGTGGTCCTGGAGTTCCCCCTGCAACAGATGG
ATTCCCCGCTTGACTCAAGCCGCTACTGTGCCCTGCTGCTTCTCTGCTAAAGGCCTGGAGCCCTGTTTTTAGGA
ACTACATAAAGCGCGCAGCCGACCATTTGGAAGCGTTAGCAGCCATTGAGGACTTCTTCTAGAGCATGAAGCTC
TTGGTATTTCCATGGCCAAGGTACTGATGGCTTTCTACCAGCTGGAGATCCTGGCTGAGGAAACAATTCTGAGCT
GGTTCAGCCAAAGAGATACAACCTGACAAGGGCCAGCAGTTGCGCAAGAATCAACAGCTGCAGAGGTTTCATCCAGT
GGCTAAAAGAGGAGCAGAAGAGGAGTCATCTGAAGATGACTGAAAGTCACTGCACTGCCTGCTCCTTTGGGTGTGATTGAG
TGCCCTCCTGGCTCCTGGGCTGGGACAAGTGAGGAAGTACCTGCAGAGGGATGAGTGACCACCATCCAGGCTGAG
ACTGAAAGGAGCAGAGGCTGGAACCTACAGTATTTCTTTCCCTGCTAGCAACCATGTGCCTCCCATCCTGACTGTG
GAGTTGGGATGTGGAAGTGGGGCTGGAACAAAGCTTCTGCCTAGGGAGGAGCTAAGCAGGCCCGGCAGTTGGAGG
AAGGCCAGAGGAACAGCTTTGTGCTCCGGCTTTCCCTCAGGGAACAGCAGAGAGCAGTTGGCTCTTTCTGCTGCT
TGATATGTTAATATTAAAAGAGAGTGGTGT

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FIGURE 1311

MAAPVVAPPGVVSRANKRSGAGPGGSGGGGARGAEEEEPPPLQAVLVADSFDRRFFPISKDQPRVLLPLANVAL
IDYTLEFLTATGVQETFFVCCWKAQIKEHLLKSKWCRPTSLNVVRIITSELYRSLGDVLRDVEDAKALVRSDFL
VYGDVISNINITRALEEHRLRRKLEKNVSVMTMIFKESSPSHPTRCHEDNVVVAVDSTTNRVLHFQKTQGLRRFA
FPLSLFQGSSDGVEVRYDLLDCHISICSPQVAQLFTDNFDYQTRDDFVRGLLVNEEILGNQIHMHVTAKEYGARV
SNLHMYSAVCADVIRRWVYPLTPEANFTDSTTQSCTHSRHNIYRGPEVSLGHGSILEENVLLGSGTVIGSNCFIT
NSVIGPGCHIGDNVVDQTYLWQGVRAAGAQIHQSLLCDNAEVKERVTLKPRSVLTSQVVVGPNITLPEGSVIS
LHPPDAEEDDDGEFSDDSGADQEKDKVKMKGYNPAEVGAAGKGYLWKAAGMNMEEEEELQONLWGLKINMEEES
ESESEQSMDSEEPDSRGGSPQMDDIKVFQNEVLGTLQRGKEENISCDNLVLEINSLKYAYNVSLKEVMQVLSHV
LEFFLQQMDSPLDSSRYCALLLPLLKAWSPVFRNYIKRAADHLEALAAIEDFFLEHEALGISMAKVLMAFYQLEI
LAEETILSWFSQRDTTDKGQQLRKNQQLQRFIQWLKEAEESSEDD

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FIGURE 1312

ATGGCGGCCCTGTAGTGGCGCCGCTGGTGTGGTGGTTAGTCGGGCTAACAAGCGCAGCGGCGCGGGGCCGGA
GGCAGCGGTGGCGGGGAGCCAGAGGGGCGGAGGAGGAACCGCCGCCGCCCTACAAGCAGTTCTGGTGGCCGAT
AGCTTCGATCGCCGCTTCTTCCCCATCTCCAAGGACCAGCCTCGGGTCCTCTTGCCCCCTGGCCAATGTGGCATT
ATTGACTACACTCTGGAATTCCTGACTGCCACAGGTGTACAGGAAACATTTGTCTTTTGTGCTGGAAAGCTGCT
CAAATCAAAGAACATTTACTGTAAAGGCCCTGCAACTTTTCTTTCCATGTTTCGCCATCTTTTCCAGTTTTTCA
GGATGAATGTAACTAAGGGGAAATGTGAGAGGGGAAAAATGTGTCTACTTAGATGTCATTGTAAGTTCTAAGGT
ATTTTCTACACTTATCAGGAGGTGAGCAGCTGAACTTTGTATCTGTCTGTCTTGGGTTTTCTGTGACAAAGATT
AAAGAATAAACTTGGGTTTTTTCTGAATCTC

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FIGURE 1313A

CAAGCGACACAAATGAACACGCCTTCTCAGCCCCGCCAGCACTTCTACCCTAGCCGGGCCCCAGCCCCGAGCAGT
GCAGCCTCCCGAGTGCAGAGTGCAGCCCCCTGCCCGCCCTGGCCCAGCTGCCCATGTCTACCCTGCTGGATCCCAA
GTAATGATGATCCCTTCCCAGATCTCCTACCCAGCCTCCCAGGGGGCCTACTACATCCCTGGACAGGGGCGTTCC
ACATACGTTGTCCCGACACAGCAGTACCCTGTGCAGCCAGGAGCCCCAGGCTTCTATCCAGGTGCAAGCCCTACA
GAATTTGGGACCTACGCTGGCGCCTACTATCCAGCCCAAGGGGTGCAGCAGTTTCCCACTGGCGTGGCCCCCACC
CCAGTTTTGATGAACCCAGCCACCCAGATTGCTCCCAAGAGGGAGCGTAAGACGATCCGAATTCGAGATCCAAAC
CAAGGAGGAAAGGATATCACAGAGGAGATCATGTCTGGGGCCCGCACTGCCTCCACACCCACCCCTCCCCAGACG
GGAGGCGGTCTGGAGCCTCAAGCTAATGGGGAGACGCCCCAGGTTGCTGTCAATTGTCCGGCCAGATGACCGGTCA
CAGGGAGCAATCATTGCTGACCGGCCAGGGCTGCCTGGCCAGAGCATAGCCCTTCAGAATCCCAGCCTTCGTCTG
CCTTCTCCGACCCCATCACCATCCCCAGTCTTGAACCGGGGTCTGAGCCTAATCTCGCAGTCTCTCTATTCTCT
GGGGACACTATGACAACTATACAAATGTCTGTAGAAGAATCAACCCCATCTCCCGTGAAACTGGGGAGCCATAT
CGCCTCTCTCCAGAACCCACTCTCTCGCCGAACCCATACTGGAAGTAGAAGTGACACTTAGCAAACCGGTTCCA
GAATCTGAGTTTTCTTCCAGTCTCTCCAGGCTCCCACCCCTTTGGCATCTCACACAGTGGAATTCATGAGCCT
AATGGCATGGTCCCATCTGAAGATCTGGAACAGAGGTGGAGTCAAGCCCAGAGCTTGCTCTCCCCCAGCTTGC
CCCTCCGAATCCCCTGTGCCCATTTGCTCCAACCTGCCAACCTGAGGAAGTCTCAACGGAGCCCCCTCGCCACCA
GCTGTGGACTTAAGCCCAGTCAGTGAGCCAGAGGAGCAGGCCAAGGAGGTGACAGCATCAATGGCGCCCCCACC
ATCCCCTCTGCTACTCCAGCTACGGCTCCTTCAGCTACTTCCCCAGCTCAGGAGGAGGAAATGGAAGAAGAGAA
GAAGAGGAAGAAGGAGAAGCAGGAGAAGCAGGAGAAGCTGAGAGTGAGAAAGGAGGAGAGGAACTGCTCCCCCA
GAGAGTACCCCTATTCCAGCCAACCTTGCTCAGAATTTGGAGGCAGCAGCAGCCACTCAAGTGGCAGTATCTGTG
CCAAAGAGGAGACGGAATAAAGGAGCTAAATAAGAAGGAGGCTGTTGGAGACCTTCTGGATGCCTTCAAGGAG
GCGAACCCGGCAGTACCAGAGGTGGAAATCAGCCTCCTGCAGGCAGCAATCCAGGCCAGAGTCTGAGGGCAGT
GGTGTGCCCCCACGTCTTGAGGAAGCAGATGAGACCTGGGACTCAAAGGAAGACAAAATTACAATGCTGAGAAC
ATCCAGCCCGGGGAACAGAAGTATGAATATAAGTCAGATCAGTGGAAGCCTCTAAACCTAGAGGAGAAAAACGT
TACGACCGTGAGTTTCTGCTTGGTTTTTCAGTTTCATCTTTGCCAGTATGCAGAAGCCAGAGGGATTGCCACATATC
AGTGACGTGGTGCTGGACAAGGCCAATAAAACACCACTGCGGCCACTGGATCCCCTAGACTACAAGGCATAAAT
TGTGGCCAGACTTCACTCCATCCTTTGCCAACCTTGGCCGGACAACCCCTTAGCACCCGTGGGCCCCCAAGGGGT
GGGCCAGGTGGGGAGCTGCCCCGTGGGCCGGCTGGCTGGGACCCCGGCGCTCTCAGCAGGGACCCCGAAAAGAA
CCACGCAAGATCATTGCCACAGTGTTAATGACCGAAGATATAAACTGAACAAAGCAGAGAAAGCCTGGAAACCC
AGCAGCAAGCGGACGGCGGCTGATAAGGATCGAGGGGAAGAAGATGCTGATGGCAGCAAAACCCAGGACCTATTC
CGCAGGGTGCGCTCCATCCTGAATAAACTGACACCCAGATGTTCCAGCAGCTGATGAAGCAAGTGACGCAGCTG
GCCATCGACACCGAGGAACGCCTCAAAGGGGTCAATTGACCTCATTTTTTGAGAAGGCCATTTAGAGCCCAACTTC
TCTGTGGCCTATGCCAACATGTGCCGCTGCCTCATGGCGCTGAAAGTGCCCACTACGGAAGGCCAACAGTGACT
GTGAATTTCCGAAAGCTGTTGTTGAATCGATGTGAGAAGGAGTTTGAGAAAGACAAAGATGATGATGAGGTTTTT
GAGAAGAAGCAAAAAGAGATGGATGAAGCTGCTACGGCAGAGGAACGAGGACGCCTGAAGGAAGAGCTGGAAGAG
GCTCGGGACATAGCCCGGCGGCTCTTTAGGGAATATCAAGTTTATTGGAGAGTTGTTCAAACCTGAAGATGTTA
ACAGAGGCAATAATGCATGACTGTGTGGTCAAACCTGCTTAAGAACCATGATGAAGAGTCCCTTGAGTGCCTTTGT
CGTCTGCTCACCACCATTTGGCAAAGACCTGGACTTTGAAAAAGCCAAGCCCCGAATGGATCAGTATTTCAACCAG
ATGGAATAATCATTAAAGAAAAGAAGACGTATCCCGCATCCGCTTTATGCTGCAGGACGTGCTGGATCTGCGA
GGGAGCAATTGGGTGCCACGCCGAGGGGATCAGGGTCCCAAGACCATTGACCAGATCCATAAGGAGGCTGAGATG
GAAGAACATCGAGAGCACATCAAAGTGAGCAGCTCATGGCCAAGGGCAGTGACAAGCGTCGGGGCGGTCTTCCA
GGCCCTCCCATCAGCCGTGGACTTCCCCTTGTGGATGATGGTGGCTGGAACACAGTTCCCATCAGCAAAGGTAGC
CGCCCCATTGACACCTCAGACTCACCAGATCACCAGCCTGGCTCCATCGATTCTAACAACCAGCTCTTTGCA
CCTGGAGGGCGACTGAGCTGGGGCAAGGGCAGCAGCGGAGGCTCAGGAGCCAAGCCCTCAGACGCAGCATCAGAA
GCTGCTCGCCAGCTACTAGTACTTTGAATCGCTTCTCAGCCCTTCAACAAGCGGTACCCACAGAAAGCACAGAT
AATAGACGTGTGGTGCAGAGGAGTAGCTTGAGCCGAGAACGAGGCGAGAAAGCTGGAGACCGAGGAGACCGCCTA
GAGCGGAGTGAACGGGGAGGGGACCGTGGGGACCGGCTTGATCGTGCGGGACACCTGCTACCAAGCGGAGCTTC
AGCAAGGAAGTGGAGGAGCGGAGTAGAGAACGGCCCTCCCAGCCTGAGGGGCTGCGCAAGGCAGCTAGCCTCACG
GAGGATCGGGACCGTGGGCGGGATGCCGTGAAGCGAGAAGCTGCCCTACCCCCAGTGAGCCCCCTGAAGGCGGCT

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FIGURE 1313B

CTCTCTGAGGAGGAGTTAGAGAAGAAATCCAAGGCTATCATTGAGGAATATCTCCATCTCAATGACATGAAAGTA
GGCAGTCCAGTGCGTGACAGGAGCTGGCCTCACCCCTCCTTGCTCTTCATCTTTGTACGGCATGGTGTGCGAGTCTAC
GCTGGAGCGCAGTGCCATTGCTCGTGAGCATATGGGGCAGCTGCTGCACCAGCTGCTCTGTGCTGGGCATCTGTC
TACTGCTCAGTACTACCAAGGGTTGTATGAAATCTTGGAATTGGCTGAGGACATGGAAATTGACATCCCCACGT
GTGGCTCTACCTAGCGGAAGTGGTAACACCCATTCTGCAGGAAGGTGGGGTGCCCATGGGGGAGCTGTTTCAGGGA
GATTACAAAGCCTCTGAGACCGTTGGGCAAAGCTGCTTCCCTGTTGCTGGAGATCCTGGGCCTCCTGTGCAAAAG
CATGGGTCCATAAAAAGGTGGGGACGCTGTGGCGAGAAGCCGGGCTTAGCTGGAAGGAATTTCTACCTGAAGGCCA
GGACATTGGTGCATTTCGTCGCTGAACAGAAGGTGGAGTATACCCTGGGAGAGGAGTCGGAAGCCCCCTGGCCAGAG
GGCACTCCCCCTCCGAGGAGCTGAACAGGCAGCTGGAGAAGCTGCTGAAGGAGGGCAGCAGTAACCAGCGGGTGTT
CGACTGGATAGAGGCCAACCTGAGTGAGCAGCAGATAGTATCCAACACGTTAGTTCGAGCCCTCATGACGGCTGT
CTGCTATTCTGCAATTATTTTTGAGACTCCCCCTCCGAGTGGACGTTGCAGTGCTGAAAGCGCGAGCGAAGCTGCT
GCAGAAATACCTGTGTGACGAGCAGAAGGAGCTACAGGCGCTCTACGCCCTCCAGGCCCTTGTAAGTGACCTTAGA
ACAGCCTCCCAACCTGCTGCGGATGTTCTTTGACGCACTGTATGACGAGGACGTGGTGAAGGAGGATGCCTTCTA
CAGTTGGGAGAGTAGCAAGGACCCCGCTGAGCAGCAGGGCAAGGGTGTGGCCCTTAAATCTGTCACAGCCTTCTT
CAAGTGGCTCCGTGAAGCAGAGGAGGAGTCTGACCACAAGTGAAGGGCTGGTGGGGCCGGGGACCTGGAGCCCCAT
GGACACACAGATGGCCCGGCTAGCCGCTGGACTGCAGGGGGGCGGCAGCAGCGCGGTGGCAGTGGGTGCCTGT
AGTGTGATGTGTCTGAACTAATAAAGTGGCTGAAGAGGCAGGATGGCTTGGGGCTGCCTGGGCCCCCCTCCAGGA
TGCCGCCAGGTGTCCCTCTCCTCCCCCTGGGGCACAGAGATATATTATATATAAAGTCTTGAAATTTGGTGTGTC
TTGGGGTGGGGAGGGGCACCAACGCCTGCCCTGGGGTCCCTTTTTTTTATTTTCTGAAAATCACTCTCGGGACTG
CCGTCTCGCTGCTGGGGGCATATGCCCCAGCCCCTGTACCACCCCTGCTGTTGCCTGGGCAGGGGGAAGGGGGG
GCACGGTGCCTGTAATTATTAAACAT

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FIGURE 1314A

GCCGCGGCCACCGGAAGAGTCGCGGTGCGCAGTCCAGTCTGGGAGAGTGGGGAGCGGAAGCGGCGGCCGCGGCGGC
GGCGGGCGGCGCTGGGACCCGGTAGCGGCCGGAGAACAAGGGAGCTGGCGCCGCCAGCAGCCGCCGAGCTGGGT
GAGCCGCTGGGCGCGCCGCGCGCCGCTCTGGGAGGCTCGGCCCGGCCGAGCAGGCCGCGCGCGGG
CCGCGGGGCGGAGGCCAGAGCCATGGGCGAGACCAAGATCATCTACCACTTGGATGGGCAGGAGACGCCGTACC
TTGTGAAGCTGCCCCGCGGAGCGCGTCACCTTGGCGGACTTTAAGGGCGTTTTGCAGCGACCCAGCTATA
AGTTCTTCTTCAAGTCTATGGACGACGATTTCTGGAGTGGTGAAGGAGGAGATCTCGGATGACAATGCCAAGCTAC
CATGCTTCAATGGCCGGGTGGTGTCTTGGCTGGTGTGCTGAGGGCTCACACCCAGACCCAGCCCCCTTCTGTG
CTGATAACCCATCGGAGCTGCCACCACCTATGGAGCGCACGGGAGGCATCGGGGACTCCCCAGCCCCATCCTTCC
ACCTCATGCTGGTGGGGGAGCCAGGAGAACCTGGACAATGACACAGAGACGGACTCTTTGGTGTCTGCCCAGC
GAGAGCGGCCACGCCGGAGGGATGGCCAGAGCATGCAACCCGGCTAAATGGAAGTGCAGAGGGGGAACGGCGGC
GAGAACCAGGGGTTATGATAGCTCATCCACCTTATGAGCAGTGAAGTGGAGACCACAGCTTCTTTGACTCAG
ATGAGGATGACTCCACCAGCAGGTTGAGCAGCTCCACAGAACAGAGCAGTGCCTCACGCCTGATGAGAAGACACA
AGCGGCGGCGGCGGAAGCAGAAGTTTTCTCGGATTGAGCGTCTCTGCTCTTCAGCAGCATCACGGACTCCACCA
TGTCACCTCAACATCATCAGGTCACCTCTCAACATGAAAAATATAACTTCTTGGGCATCTCCATTGTGGGCCAAA
GCAACGAGCGTGGTGACGGCGGCATCTACATTGGCTCTATCATGAAGGGTGGGGCCGTGGCTGTGATGGACGCA
TCGAGCCAGGAGATATGTTGTTACAGGTAAACGAGATCAACTTTGAGAATGAGTAATGACGATGAGTCCGGG
TACTGCGGGAGATTGTGCACAAACCGGGGCCCCATCACCTGACTGTAGCCAAGTGTGGGACCCAAGTCCACGTG
GTTGCTTACATTGCCCAGGAGCGAGCCCATCCGGCCATTGACCCTGCGGCCTGGGTCTCCACACTGCAGCCA
TGACCGGCACCTTCCCTGCATACGGCATGAGCCCCCTCCCTGAGCACCATCACCTCCACCAGCTCCTCCATCACCA
GTTCCATCCCTGACACAGAGCGCCTAGACGACTTCCACTTGTCCATCCACAGTGACATGGCTGCCATCGTAAAG
CCATGGCCTCCCTGAATCAGGGTTGGAGGTCCGTGACCGCATGTGGCTCAAGATTACCATCCCTAATGCTTTCA
TCGGCTCAGATGTGGTGGACTGGCTGTACCACAATGTGGAAGGCTTCACGGACCGGAGGGAGGCCCGCAAGTATG
CCAGCAACCTGCTGAAAGCTGGCTTTCATCCGCCATACCGTCAACAAGATCACCTTCTCCGAGCAGTGCTACTACA
TCTTCGGTGACCTCTGCGGCAACATGGCCAACCTGTCTCTCCACGATCACGATGGCTCCAGTGGCGCCTCTGACC
AGGACACACTGGCCCCCTTTGCCGCACCCGGGGGCGCCCCCTTGGCCCCATGGCTTTCCCGTACCAGTACCCGCCAC
CCCCGCACCCATACAACCCGCACCCGGGCTTCCCGGAGCTGGGCTACAGCTACGGCGGGGGCAGCGCCAGCAGTC
AGCACAGCGAAGGCAGTCGGAGCAGTGGCTCCAACCGTAGCGGCAGCGATCGGAGGAAGGAGAAGGACCCGAAGG
CCGGGGACTCCAAGTCCGGGGGCGAGCGGCAGCGAATCGGACCACACCACACGCAGCAGCCTGCGGGGGCGCGGG
AGCGGGCGCCAGCGAGCGCTCAGGGCGGCGGGCCAGCGAGCACAGCCACCGCAGCCACCATTCCCTGGCCAGCA
GCCTTCGAGCCACCACACACACCCGAGCTACGGTCTCTCCGGAGTGCCCCCTCTCTACGGCCCCCATGCTGA
TGATGCCCCCGCCGCCGCGGCCATGGGGCCCCAGGAGCCCCCTCCGGGCCGCGACCTGGCCTCAGTGCCCCCGG
AACTGACCGCCAGCAGACAGTCTTCCGCATGGCCATGGGAAACCCAGTGAGTCTTTGTGGATGTGATGTGAG
CAGGGCCCCCTCCCCAGCTCCATTCCGCTCCACCCAGCCGGCTGCGTTCCTCTCTCCATCCGTCCGTCTTTTT
TACTTTGTCTGGTACCTGAAAGGGAAATAAAAGGAATAAATCCAGGTGCGCTAACTGCTCGCAGGGTGTGCGA
GGGTGGGGTGACCTACCGATTGGCTCTGCAGCCCCCTAACCTGCCTCTGGCCCCAGTTCGTTTCTCTGCCCCAC
TAATCCCTGCGCAGGACTTCCCAGGACCCCTTTTGTCTCTGGGACCAGACTTGTGGTGCTACCCCTTACTCCCC
TCTGCAACCCCCATTTTGGGAGTTGACCCAGCAATGACCTTGGTGGCACGCTCACTCCCTCATCTCTCGTTTC
CCCTTTAGCTCCCTTTCACCATTTATTTCAGCTACATCATCCCTCTATTAAACCCACCCCATCAGGCACGTGTGCA
AACCTCTTGACTTTACCCACATTACTGAAACCAAAATATATTTGCTTCATCTGCCCCCTACTAACCATCCCCCTG
CCTGCTGCCTCAGTCTGCAACCTAAAGCTGTAGTCGCCTCCAATAGCCATCCATGCCATCCCTGCCTGTGCCTA
GATCAGAGGCCAGAGGGCCCCCTCAGTTGCCTGAGCAGTGGTGGCTTCCAGGGAGCATCTCTGCTCTACCCCT
GCCCCATGCCTGCCCTGCGTGCTGGTTCCCTCAGACCCCTAACCTACTAACCAGCAGGCTCATCTCACCTCCAG
GCCTGAAACATTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTT
TGTTTGAATTTCTGTGAGCCCCAGCGAGGGGAGGCCAGCCTCCGAGGAGACCAGGAACCCCTGCTTCAGCAGCC
CCTCAGGGCTTCCCAAGGATGTCCAGCCCCACACCCACAGTTAACATAATGAGTCACTAGGCTTCTGGGGAGG
GCCCCAATTACCCATGCATGAGAGACTCTCTCTTTTCCAGAGAGAATCGGATCGCACCACGTGTGGCAGCCTG
CGGCGGGGGGAGGGGGGCTCTTTAGCTCTCTTTATCTTTCTCTCTCACTCATGTATGCATACATGCACAGAGAT
GCATACACAGGTGCCTATGCAAGTTCAATTAAGCCTCAGGGCTGGTCCCTGCCCAAGGGCTGGACCCCTCCTAAT

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FIGURE 1314B

CCTCTCCTAGGTTGTGGGGCTGGTCCCCTGACACCCTTCTCCCCTTCCTGGTAGACCTTAAACCTCGCACACATG
TCCCCAGCATTTTCTCACCTGGATAAAGCCCATAGCTGGGTCTCAGGCTGGGCTCAGCAAAGGACTCGCCTTGC
AACCGACAGGCCATTCCCACCCCCACACACAACCTCCCCTGTTTTACATTACCATGGCATCCCAGAGCAAGGA
CACAGGAGCCACAGGCCAGTTGAGGTTGGGCAAGGAGACTTCCAGGACTTCCAGACAGAGTACCAGGTTTTATT
TTTCACCTTATTCTCTACTTTAAACAAATCATAACTTTCTCTTTAAGCCTCTGCTATAAATTCTCCTGGCTCTCC
TGGGCTTCCATATTTTGGGGGCTGGGGTGTCAAAAGTGAGATGAAGTTCTTAGCTCCAGGTTTGGGGTAAACCA
AGGTAGGAACATTTTGGCATTATTTCAATTAACAATACTTCCTTGGACGGGTGCGGTGGCTCACGTCTGTAATC
CCAGCACTTTGGGAGGCTGAGACAGGTGGATCACTTGAGGTCGGGAGTTTCGAGACCAGCCTGGCCAACATAGCAA
AACCCTGTCTCTACTAAAAATACAAAAATTAGATGGGTGTTTTGGCACCTGCCTGTAATCTCAGCTACTCAGGAG
GCTGAGGCACAAGAATCGCTTGAATCCAGGAAGCAAGCGGAGGTTGCAGTGAGTTGAGATCGCACTCCAGCCTGG
GTGACAGAGTGAGATTCTGTCTCAAAAGCAAATAACAAAGAAAAACAATACTTCCTGGGGTTTTGGTGTGCAGA
GGGCTTTGTTGGAAGTGTGACTCAATCTGCCTGCCTTCTGGGAGCTCTAGAATTGTTCCCAACCCAGTCCATGG
CTTCTAGCCACCACTACAGGGCTGTTTCATGTACTTCTCTCTCTGACTCTGTCTTGTCCGACTCTCTTGAGAATT
TCTCAACGATTGCTCATGCCTGTCAGTATCAGTGCTTCCATCGTTCCATCTTTGATTCACTTCTCTTTCTTTCT
ATTTACTCCCAAAATGGAGTCATTCATCCTGATGTCCTCAATTGCTGCTGATATGCTGGTGATTCCCAAAATACAT
AGCTCCAACCCCAACTTCCCCCAGACTTTAGATCTGTATTGGTATTACCTACTGGACATCTCTATGGACAGTTC
CGTATAGACTCAACTCATCTGCCCAACCAAGTATGTTCCCTCCTGAATTCCTCTCCTGGTTACTTCATCACAATCT
ACATAGGCTCACCAGCTAGAAACATTTATGAGCTTACATTCTTCTTCCCATATCTTATCAGCATATCATATCCA
TTTCACTCCAACACTCTGTCTTGAATTTGGCCCTCCCTCTCCCCTCTCTACTTTAATTCATTGGAGCATGGGATT
TGGAGTTAGGTGGTTTTTGGGTTTGAATTCAGCTCTACTATTTTTGGTTGTGTGATAGAGTTATTTAACCTCTCT
GAGCCTCAGTTCCCTCGTATGTAAAATGATGATAATAATACCTACCTCACAGGGTTGTTGTGAGGATTTAAATTA
GATATTGTACGAAAAGTGCCTAGCACAGTGCCTGGCACACAGTAGAGTAGGTGCTCAATAAATGGTAGCTATTAT
TATT

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FIGURE 1315

CCGAGGCAGCGGGCAGACGAGCAGGAGGGGGCGGGCGGCACATCTTGGGATCCGGAGAGTGGCCGGGCCGGCAGAGCAG
GGGGCCGAGGACACCAGGTCTGTTTCTCAGAGCGATGGGGCCGCGGAGACTGATCTGCCGCCATGATTGGAGGCTTA
TTCATCTATAATCACAAAGGGGGAGGTGCTCATCTCCCGAGTCTACCCGAGATGACATCGGGAGGAACGCAGTGGAT
GCCTTTTCGGGTCAATGTTATCCATGCCCGGCAGCAGGTGCGCAGCCCCGTACCAACATTGCTCGCACCAGCTTC
TTCCACGTTAAAGCGGTCCAACATTTGGCTGGCAGCAGTACCAAGCAGAATGTCAACGCTGCCATGGTCTTTCGAA
TTCCTCTATAAGATGTGTGACGTGATGGCTGCCTACTTTGGCAAGATCAGCGAGGAAAAACATCAAGAAACAATTTT
GTGCTCATATATGAGCTGCTGGATGAGATTCTAGACTTTGGCTACCCACAGAATTCCGAGACAGGCGCGCTGAAA
ACCTTCATCACGCAGCAGGGCATCAAGAGTCAGATGTAGACAAAAAGAGAGCAGTCACAGATCACCAGCCAGGTA
ACTGGGCAGATTGGCTGGCGGCGAGAGGGTATCAAGTATCGTCGGAATGAGCTCTTCTGGATGTGCTGGAGAGT
GTGAACCTGCTCATGTCCCCACAAGGGCAGGTGCTGAGTGCCCATGTGTGCGGGCCGGGTGGTGATGAAGAGCTAC
CTGAGTGGCATGCCCTGAATGCAAGTTTGGGATGAATGACAAGATTGTTATTGAAAAAGCAGGGCAAAAGGCACAGCT
GATGAAACAAGCAAGAGCGGGAAGCAATCAATTGCCATTGATGACTGCACCTTCCACCAGTGTGTGCGACTCAGC
AAGTTTGACTCTGAACGCAGCATCAGCTTTATCCCGCCAGATGGAGAGTTTGAGCTTATGAGGTATCGCACAAAC
AAGGACATCATCCTTCCCTTCCGGGTGATCCCGCTAGTGCGGAGAAGTGGGACGCACCAAACTGGAGGTCAAGGTG
GTCATCAAGTCCAACCTTTAAACCCCTCACTGCTGGCTCAGAAGATCGAGGTGAGGATCCCAACCCCACTGAACACA
AGCGGGGTGCAGGTGATCTGTCATGAAGGGGAAGGCCAAGTACAAGGCCAGCGAGAATGCCATCGTGTGGAAGATC
AAGCGCATGGCAGGCATGAAGGAATCGCAGATCAGCGCAGAGATTGAGCTTCTGCCTACCAACGACAAGAAGAAA
TGGGCTCGACCCCCCATTTCCATGAACCTTTGAGGTGCCATTTCGCGCCCTCTGGCCTCAAGGTGCGCTACTTTGAA
GTGTTTGAACCGAAGCTGAACCTACAGCGACCATGATGTCTATCAAATGGGTGCGCTACATTGGCCGAGTGGCATT
TATGAAACTCGCTGCTAGCTGCCACTAGGCAGCTAGCCACCTCCCCAGCCACCCTCCTCCACAGGTCCAGGTGC
CGCTCCCTCCCCCACCACACACTAGTGTCTCCTCCCTCCTGCTTTGCTGCCTTCCCTTTGCACCAGCCCGAGTCT
AGGTCTGGGCCAAGCACATTACAAGTGGGACCGGTGGAGCAGCCCCTGGGCTCCCTGGGCAGGGGAGTTCTGAGG
CTCCTGCTCTCCCATCCACCTGTCTGTCTTGGCCTAATGCCAGGCTCTGAGTTCTGTGACCAAGCCAGGTGGGT
TCCCTTTCCCTTCCCACCCCTGTGGCCACAGCTCTGGAGTGGGAGGGTTGGTTGCCCCCTCACCTCAGAGCTCCCC
AAAGGCCAGTAATGGATCCCCGGCCTCAGTCCCTACTCTGCTTTGGGATAGTGTGAGCTTCATTTTGTACACGTG
TGACTTCGTCCAGTTACAAACCCAATAAACTCTGTAGAGTGG

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FIGURE 1316

GGTGGGCCCACACAAGCGGCGCACCGTTAAGATGGCGGCTGGGCTGCGGAAACGCGGCCGGTCCGGTTCCGCGGC
CCAGGCAGAGGGACTCTGCAAGCAATGGCTGCAGCGCGCCTGGCAAGAGCGGCGCCTGCTGCTGCGGGAGCCGCG
CTACACGCTGCTGGTGGCCGCTGCCTCTGCCTGGCGGAGGTGGGCATCACCTTCTGGGTCAATCACAGGGTGGC
ATACACAGAGATTGACTGGAAGGCCTACATGGCCGAGGTAGAAGGCGTCATCAATGGTACCTATGACTATACCCA
ACTGCAGGGTGACACCGGACCACTTGTGTACCCAGCTGGTTTTCGTGTACATCTTTATGGGGTTGTACTATGCCAC
CAGCCGAGGCACTGACATCCGCATGGCCAGAACATCTTTGCTGTGCTCTACCTGGCTACCTTGCTGCTTGTCTT
CTTGATCTATCACCAGACCTGCAAGGTACCTCCCTTCGTCTTTTTCTTCATGTGCTGCGCCTCTTACCGTGTCCA
CTCCATCTTTGTGCTGCGGCTCTTCAATGACCCAGTGGCCATGGTGCTGCTCTTCCTCAGTATCAACCTCCTGCT
GGCCCAGCGCTGGGGCTGGGGCTGCTGCTTTTTCAGCCTGGCAGTCTCTGTGAAGATGAATGTGCTGCTCTTCGC
CCCTGGGTTACTGTTTCTTCTCCTCACACAGTTTGGCTTCCGTGGGGCCCTCCCCAAGCTGGGAATCTGTGCTGG
CCTTCAGGTGGTGCTGGGGCTGCCCTTCTGCTGGAGAACCCAGCGGCTACCTGTCCCGCTCCTTTGACCTTGG
CCGCCAGTTTCTGTTCCACTGGACAGTGAAGTGGCGCTTCCTCCCAGAGGCGCTCTTCCTGCATCGAGCCTTCCA
CCTGGCCCTGTTGACTGCCCACCTCACCTGCTCCTGCTGTTTGGCCCTCTGCAGGTGGCACAGGACAGGGGAAAG
TATCTTGTGCTGCTGAGGGATCCCTCCAAAAGGAAGGTTCCACCCAGCCCCCTTACACCCAACCAGATCGTTTC
TACCCTCTTCACCTCCAACCTTCAATTGGCATCTGCTTCAGCCGCTCCCTCCACTACCAGTTCTACGTCTGGTATTT
CCACACACTGCCCTACCTCCTGTGGGCCATGCCTGCACGGTGGCTCACACACCTGCTCAGGTTGTTGGTGCTGGG
GCTCATCGAGCTCTCCTGGAACACATACCCTTCCACATCCTGCAGCTCTGCTGCCCTGCACATATGCCATGCCGT
CATCCTGCTGCAGCTCTGGCTGGGCGCGCAGCCTTTCCCCAAGAGCACCCAACACAGCAAGAAAGCCCACTGAAG
TCCACCCCTTTCCCTCAGGACCTGAGTCTACCCTCAGGACCTGGGGTGGGTTGGACTCTGCCCTTCCAAATAAAC
CTTGCTAAGTCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1317

MAAGLRKRGRSGSAAQAEGLCKQWLQRAWQERRLLLREPRYTLLVAACLCLAEVGITFWVIHRVAYTEIDWKAYM
AEVEGVINGTYDYTQLQGDTPDVYPAGFVYIFMGLYYATSRGTDIRMAQNIFAVLYLATLLLVFLIYHQTCKVP
PFVFFFMCASYRVHSIFVLRLENDPVAMVLLFLSINLLLAQRWGWGCCFFSLAVSVKMNVLFFAPGLLFLLLTQ
FGFRGALPKLGICAGLQVVLGLPFLLNPSGYLSRSFDLGRQFLFHWTNVNWRFLPEALFLHRAFLALLTAHLTL
LLLFALCRWHRTGESILSLRDPSKRKVPPQPLTPNQIVSTLFTSNFIGICFSRSLHYQFYVWYFHTLPYLLWAM
PARWLTHLLRLLVLGLIELSWNTYPSTSCSSAALHICHAVILLQLWLGPQFPKSTQHKKAH

FIGURE 1318

[illegible]

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FIGURE 1319

MASPGAGRAPPPELPERNCGYREVEYWDQRYQGAADSAPYDWF GDFSSFRALLEPELRPEDRILVLGCGNSALS YE
LFLGGFPNVTSDYSSVVVAAMQARYAHVPQLRWETMDVRKLD FPSASFDDVLEKGTLDALLAGERDPWTVSSEG
VHTVDQVLSEVSRVLVP GGRFISMTSAAPHFRTRHYAQAYYGWSLRHATYGSGFHFHLYLMHKGGKLSVAQLALG
AQILSPPRPPTSPCFLQDSDHEDFLSAIQL

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FIGURE 1320

GAGGCTGCGCGCCGAGGTTCCGGCTGCTGGCGGCGTTGCGGCCGAGGTTTACTCCCGTGCGGTGCGGCCAG
CAGCCACAAAGCTCCCGCTGCCATTGCTCCTTGTACTCCCGCGTCACTGCCGCTGTCCAACCCCTCCCCGGGG
CTTGCGCGGCGGCTCCACACCCCTCGGCCCGTGTACGCGCTCTGCACCTGCCTGCCCGAAAACATGTTGCAGAC
ACCAGAGAGCAGGGGGCTCCCGGTCCCGCAGGCCGAGGGGGAGAAGGATGGCGGCCATGATGGTGAGACCCGGGC
CCCGACCGCCTCGCAGGAGCGCCCCAAGGAGGAGCTTGGCGCCGGGAGGGAGGAGGGGGCTGCGGAGCCCGCCCT
CACCCGAAAGGCGCGAGGGCCTTGGCGGCCAAAGCCTTGGCAAGGCGCAGGGCCTACCGCCGGCTGAATCGGAC
GGTGGCGGAGTTGGTGAGTTTCTCCTGGTGAAAGACAAGAAGAGTCCCATCACACGCTCGGAGATGGTGAA
ATACGTTATTGGAGACTTGAAGATTCTGTTCCCGGACATCATCGCAAGGGCCGAGAGCATCTGCGGTATGTCTT
TGGTTTTGAGCTGAAACAGTTTGACCGCAAGCACCACACTTACATCCTGATCAACAACTAAAACCTCTGGAGGA
GGAGGAGGAGGAGGATCTGGGAGGAGATGGCCCCAGATTGGGTCTGTTAATGATGATCCTGGGCCCTTATCTATAT
GAGAGGTAATAGCGCCAGGGAGGCCAGGTCTGGGAGATGCTGCGTCCGTTGGGGGTGCAACCCCTCAAAGTATCA
TTTCCTCTTTGGGTATCCGAAGAGGCTTATTATGGAAGATTTTGTGCAGCAGCGATATCTCAGTTACAGGCGGGT
GCCTCACACCAATCCACCAGAATATGAATTCTCTTGGGGTCCCCGAAGCAACCTGGAAATCAGCAAGATGGAAGT
CCTGGGGTTTCGTGGCCAACTGCATAAGAAGGAACCGCAGCACTGGCCAGTGCAGTACCGTGAGGCCCTAGCAGA
CGAGGCCGACAGGGCCAGAGCCAAGGCCAGAGCTGAAGCCAGTATGAGGGCCAGGGCCAGTGCTAGGGCCGGCAT
CCACCTCTGGTGAGGGTTGGTGAAAAGTTGGCCAGTGGGTCCCCGTGAGGACGAACTACTGTCTGAGTCATAAG
TAATATGGGTGGGGCGAGGGTCTTATTTCTGTAGAAATCGTGTGACTTTAAGGATTTAGATTTTGTATCTTATGT
TTTGTAACATTTAATAATTACTGTTAAATGCTGTTTGTAAATGAGATTGGTCTACTTTTTCTGTAGGATTTTA
TTGTAGAGTTTTGCTGGTTTTGTAAATGGATGGAAGAAGTTTGTATTTATACTGTGATTTTGAACAGATTATGC
AACATTGGAAGGAAGGCTGTACTTTGATGGTTTGAAGGAAGTCTAGCAGTATGATGATCTGGTTCCAGGGGAAAAA
AATAGCTGGTTGGTGTCTAGCCCCCAACACTTTTGTCTGTTGTGTATAAAAGAAGAAAGACTGGCATGTACCTT
CATTTGCTTAGCTATTTGAGTATCTAGAGAAAAATTTAAATGCAATGAGTTAGCAGTATACCCTGGCACACTTAA
TAAATTAAACATTTGTGGAGC

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FIGURE 1321

MLQTPESRGLPVPQAEGEKDGGHDGETRAPTASQERPKEELGAGREEGAAEPALTRKGARALAAKALARRRAYRR
LNRTVAELVQFLLVKDKKKSPITRSEMVKYVIGDLKILFPDIIARAAEHLRYVFGFELKQFDRKHHTYILINKLK
PLEEEEEEDLGGDGPRLGLLMMILGLIYMRGNSAREAQVWEMLRRLGVQPSKYHFLFGYPKRLIMEDFVQQRYLS
YRRVPHTNPPEYEF SWGPRSNLEISKMEVLGFVAKLHKKEPQHWPVQYREALADEADRARAKARAEASMRARASA
RAGIHLW

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FIGURE 1322

AGAGCTATGGCTCGAATTCAGAGTTTCGAGGTGGTGGGACTCACCGCTCTGGCCAGGGTGCTTTTGGAAACATG
TGTCGTGGAGGCCGAAGGTTTGCACCAACCAAAACCTGGCGCCGTTGGCATCGTAGAGTGAACACAACCCAAAAA
CGATATGCCATCTGTTCTGCCCTGGCTGCCTCAGCCCTACCAGCACTGGTCATGTCTAAAGGTCATCGTATTGAG
GAAGTTCCTGAACCTCCTTTGGTATTTGAAGATAAAGTTGAAGGCTACAAGAAGACCAAGGAAGCTGTTTTGCTC
CTTAAGAACTTAAAGCCTGGAATGATATCGAAAAGGCAGCAGCTACCAAGAAACCAGCCCCTGAAAAGAAGCCT
GCAGAAAAGAAACCTACTACAGAGGAAAAGAAGCCTGCTGCATAAACTCTTAAATTTGATTATTCCATAAAGGTC
AAATCATTTTGGACAGCTTCTTTTGAATAAAGACCTGATTATACAGGC

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FIGURE 1323

ATTCCCAGAGTTCGAGGTGGTGGGACTCACCGCTCTGGCCAGGGTGCTTTTGGAAAACCATGTGTCGTGGAGGCCGA
AGGTTTGCACCAACCAAAACCTGGCGCCGTTGGCATCGTAGAGTGAACACAACCCAAAAACGATATGCCATCTGT
TCTGCCCTGGCTGCCTCAGCCCTACCAGCACTGGTCATGTCTAAAGGTCATCGTATTGAGGAAGTTCCTGAACTT
CCTTTGGTATTTGAAGATAAAGTTGAAGGCTACAAGAAGACCAAGGAAGCTGTTTTGCTCCTTAAGAACTTAAA
GCCTGGAATGATATCGAAAAGGTCTATGCCTCTCAGCGAATGAGAGCTGGCAAAGGCAAGAAGCCTGTGGTAGGT
AAGAAAGGAAAAGAAGGCTGCTGTTGGTGTAAAGAAGCAGAAGAAGCCTCTGGTGGGAAAAAAGGCAGCAGCTACC
AAGAAACCAGCCCCTGAAAAGAAGCCTGCAGAAAAGAAACCTACTACAGAGGAAAAGAAGCCTGCTGCATTAAACT
CTTAAATTTGATTATTCCATAAAGGTCAAATCATTTTGGACAGCTTCTTTGAATAAAGACCTGATTATACAGGC
AGTGAGGAA

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FIGURE 1324

MCRGGRRFAPTKTWRRWHRRVNTTQKRYAICSALAASALPALVMSKGHRIEEVPELPLVFEDKVEGYKKTKEAVL
LLKKLKAWNDIEKVYASQRMRAGTGKKPVVGKKGKKAAGVKKQKKPLVGKKAATKKPAPEKKPAEKKPTTEEK
KPAA

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FIGURE 1325

ATGACTGGAGTGAAGCTGGTCCTGAACTCGAGGCTGTGGAAAGCGCTCATGGAAAAGGCCTGTGCAAAATTATTA
CCCTTCTGTGAAGTACTTAAAACCTACTCAAGGTGCAAGCTTTACACACCAATGCCGGGCTTGATTAATGGTATC
AGAGGAGTTCGGTTCCCCCCGAGTTTTCTCCACCCTCTGAAAATGCGGCCGGAACCTAATCCGCTGCGAGGCT
GCAGCATCTTTCGGTGCTGTCCCTCCACACCCGTGTTATCCCCACCATCCCCAGGCCGCTGTTCCGGCTGCACT
TGCCTGTGTCATTTACCCCTCCCGGTGCTCTGGGGGGCAGCGCCTCTCAGACATTCCCCTCAAACCTGCTTCCCG
CCCCCTCCTCCCAACTGCGGAGCTCCGCCAAGCGTCTCTTCTCGCGAGCCTCCAAGTCCCCTCGGGGCTCTCGAA
TCTCCAGAGACTGTGAAAGCCTCGCAACTCCGCGATCCCCATCCACTCGGGAGCCCCCGCACTCGCGCTCCGGG
GCGCCTCCCCCACGACGTGTGGAAAGCCGCTCTCCCCGCGCTCCGGAACCGTTAGCCGCACCCGCCCGACGCCTC
CCAGGAACCAAACCGGACCGGGCCGCGGGGGAGGGGGCGGTCAACCCGGGGGGGGTCACCCCAGCTACTGCACC
CCGACTTTGAAGATTCTGAATCAGCCCGTGAACCTCTAGCCGGCTGGGCCTGTCGGACCAGTGGCCGGACGCCCCCT
TCCGATCTCCCCCTGCCCCCGCAAAGCCCCCTCACCTGAGGCGGCCTCTCTCCTCCCCTTGACGCGGCCCGGC
GGCGCAGGCGCGCTCACGCACGCGCGCAGCGGGCCTGGGCGCCTGGGCGAAAGGCTGGGCCGAACCGCTCCGAAG
ACGGTGAACCGCTCCGCGCACACGCGGCTGGACTCTGCGCCGCAGCTGCCAACCAGGCTGGAGCGCTGGCCCCGGC
CCCCCGCGGCTCGCTGCTCCGCCCGCCGCAATTGGCCCCGCGGCCCTTAG

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FIGURE 1326

MTGVKLVLSRLWKALMEKACAKLLPFCEVLKTYSRCKLYTPMPGLINGIRGVRFPPEFSPPSENAAGTLIRCEA
AASFGAVPSTPVLSPPSPGRCSGCTCLCHLPPPGALGGSASQTFPSNCFPPPPPNCGAPPSVSSREPPSPLEGALE
SPETVKASQLRDPPSTREPPHSRSGAPPPRRVESRSPRAPEPLAAPARRLPGTKPDRAAGGGGGQPGGGHPSYCT
PTLKILNQPVNSSRLGLSDQWPDAPSDLPPAPAKPPHLRRPLSSPCSGPGGAGALTHARSGPGRLLGERLGRTAPK
TVNRSAHQRLDSAPQLPTRLERWPGPPRLAAPPAAIGPRP

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FIGURE 1327

AATTCCGGTTGAAACCATCCCTCAGCTCCTAGAGGGAGATTGTTAGATCATGAACTAATTACCATCCTTTTCCT
CTGCTCCAGGCTACTACTAAGTTTAACCCAGGAATCACAGTCCGAGGAAATTGACTGCAATGACAAGGATTTATT
TAAAGCTGTGGATGCTGCTCTGAAGAAATATAACAGTCAAACCAAAGTAACAACCAGTTTGTATTGTACCGCAT
AACTGAAGCCACTAAGACGGTTGGCTCTGACACGTTTTATTCTTTCAAGTACGAAATCAAGGAGGGGGATTGTCC
TGTTCAAAGTGGCAAAACCTGGCAGGACTGTGAGTACAAGGATGCTGCAAAAAGCAGCCACTGGAGAATGCACGGC
AACCGTGGGGAAGAGGAGCAGTACGAAATTCTCCGTGGCTACCCAGACCTGCCAGATTACTCCAGCCGAGGGCCC
TGTGGTGACAGCCCAGTACGACTGCCTCGGCTGTGTGCATCCTATATCAACGCAGAGCCCAGACCTGGAGCCCAT
TCTGAGACACGGCATTTCAGTACTTTAACAACAACACTCAACATTCCCTCCCTCTTCATGCTTAATGAAGTAAACG
GGCCCAAAGACAGGTGGTGGCTGGATTGAACTTTCGAATTACCTACTCAATTGTGCAAACGAATTGTTCCAAAGA
GAATTTTCTGTTCTTAACCTCCAGACTGCAAGTCCCTTTGGAATGGTGATAACGGTGAATGTACAGATAATGCATA
CATCGATATTCAGCTACGAATTGCTTCCTTCTCACAGAAGTGTGACATTTATCCAGGGAAGGATTTTGTACAACC
ACCTACCAAGATTTGCGTGGGCTGCCCCAGAGATATACCCACCAACAGCCCAGAGCTGGAGGAGACACTGACTCA
CACCATCACAAAGCTTAATGCAGAGAATAACGCAACTTTCTATTTCAAGATTGACAATGTGAAAAAAGCAAGAGT
ACAGGTGGTGGCTGGCAAGAAATATTTTATTGACTTCGTGGCCAGGGAAACCACATGTTCCAAGGAAAGTAATGA
AGAGTTGACCGAAAGCTGTGAGACCAAAAACTTGGCCAAAGCCTAGATTGCAACGCTGAAGTTTATGTGGTACC
CTGGGAGAAAAAAATTTACCCTACTGTCAACTGTCAACCACTGGGAATGATCTCACTGATGAAAAGGCCTCCAGG
TTTTTCACCTTTCCGATCATCACGAATAGGGGAAATAAAAGAAGAAACAACCTAGTCACCTAAGGTCCTGCGAGTA
CAAGGGTCGACCCCCAAAGGCAGGGGCAGAGCCAGCATCTGAGAGGGAGGTCTCTTGACCAATGGGCAGAATCTT
CACTCCAGGCACATAGCCCCAACCACCTCTGCCAGCAACCTTGAGAGGAAGGACAAGAAGAAAGATGGGATAGAA
TTTAAATAGAGAAGAATGCCATTTTATCACTCTGCCTCTGGGTGAAATAAAGATCAGTCTTGATGTTT

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FIGURE 1328

MKLITILFLCSRLLLSLTQESQSEEIDCNDKDLFKAVIDAALKKYNSQNQSNNQFVLYRITEATKTVGSDTFYSFK
YEIKEGDCPVQSGKTWQDCEYKDAAKAATGECTATVGKRSSTKFSVATQTCQITPAEGPVVTAQYDCLGCVHPIS
TQSPDLLEPILRHGIQYFNNNTQHSSLFMLNEVKRAQRQVVAGLNFRITYSIVQTNCSKENFLFLTPDCKSLWNGD
TGECTDNAYIDIQLRIASFSONCDIYPGKDFVQPPTKICVGCPRDIPTNSPELEETLTHITITKLNAENNATFYFK
IDNVKKARVQVVAGKKYFIDFVARETTCSKESNEELTESCETKKLGQSLDCNAEVYVVPWEKKIYPTVNCQPLGM
ISLMKRPPGFSFRRSSRIGEETTSHLRSCEYKGRPPKAGAEPASEREVS

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FIGURE 1329

GGCGGGAAGTGAAGGCGACTGTGGGGACATCAGTGATCGTAAGTCTCCTGGGCCCCGTTATTCTCAGATTAGGTGAC
GGAGCTAAGACTTCGAGACCATCTCGTCCTTTTTGTATCGCGGAAACCTGAGGAACGAGCCGGCGGCGGTGACCT
GCACGAGAAGCCAGGCTAACTGGGTGAAGTACCATGCAAGCATTCTTAAAGGTACATCCATCAGTACTAAACCC
CCGCTGACCAAGGATCGAGGAGTAGCTGCCAGTGCGGGAAGTAGCGGAGAGAACAAGAAAGCCAAACCCGTTCCC
TGGGTGGAAAAATATCGCCCCAAAATGTGTGGATGAAGTTGCTTTCCAGGAAGAAGTGGTTGCAGTGCTGAAAAA
TCTTTAGAAGGAGCAGATCTTCCTAATCTCTTGTGTTTACGGACCACCTGGAAGTGGAAAAACATCCACTATTTTG
GCAGCAGCTAGAGAACTCTTTGGGCCTGAAGTTTTCCGATTAAGAGTTCTTGAGTTAAATGCATCTGATGAACGT
GGAATACAAGTAGTTCGAGAGAAAGTGAAAAATTTTGCTCAATTAAGTGTGTCAGGAAGTCGCTCAGATGGGAAG
CCGTGTCCGCCTTTTAAGATTGTGATTCTGGATGAAGCAGATTCTATGACCTCAGCTGCTCAGGCAGCTTTAAGA
CGTACCATGGAGAAGGAGTCGAAAACCACCCGATTCTGTCTTATCTGTAAGTATGTCAGTCGAATAATTGAACCC
CTGACCTCTAGATGTTCAAAATTCCGCTTCAAGCCTCTGTCAGATAAAATTCAACAGCAGCGATTACTAGACATT
GCCAAGAAGGAAAATGTCAAAATTAGTGATGAGGGAATAGCTTATCTTGTTAAAGTGTGAGAAGGAGACTTAAGA
AAAGCCATTACATTTCTTCAAAGCGCTACTCGATTAAACAGGTGGAAAGGAGATCACAGAGAAAGTGATTACAGAC
ATTGCTGGGGTAATACCAGCTGAGAAAATTGATGGAGTATTTGCTGCCTGTCAGAGTGGCTCTTTTGACAAACTA
GAAGCTGTGGTCAAGGATTTAATAGATGAGGGTCATGCAGCAACTCAGCTCGTCAATCAACTCCATGATGTGGTT
GTAGAAAATAACTTATCTGATAAACAGAAGTCTATTATCACAGAAAACTTGCCGTAATTGACAAATGCCTAGCA
GATGGTGCTGATGAACATTTGCAACTCATCAGCCTTTGTGCAACTGTGATGCAGCAGTTATCTCAGAATTGTTAA
CGTGAATATATCTGGATGGGGGGTTTTGTAAATAATGAAGTTGTAATAAAAAATAAATGACCAAAGCACC

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FIGURE 1330

CCTCCAACCACCTGCACGCCTGCCTGCCAGGGCCTCTCTGGGGCAGCCATGAAGTCCCTCGTCCTGCTCCTTTGT
CTTGCTCAGCTCTGGGGCTGCCACTCAGCCCCACATGGCCCAGGGCTGATTTATAGACAACCGAAGTGGCATGAT
CCAGAAACTGAGGAAGCAGCTCTGGTGGCTATAGACTACATCAATCAAAACCTTCCTTGGGGATACAAACACACC
TTGAACCAGATTGATGAAGTAAAGGTGTGGCCTCAGCAGCCCTCCGGAGAGCTGTTGAGATTGAAATAGACACC
CTGGAACCACCTGCCATGTGCTGGACCCACCCCTGTGGCAAGATGCAGCGTGAGGCAGCTGAAGGAGCATGCT
GTCGAAGGAGACTGTGATTTCCAGCTGTTGAACTAGATGGCAAGTTTTCCGTGGTATACGCAAAATGTGATTCC
AGTCCAGACTCAGCCGAGGACGTGCGCAAGGTGTGCCAAGACTGCCCCCTGCTGGCCCCGCTGAACGACACCAGG
GTGGTGCACGCCGCGAAAGCTGCCCTGGCCGCCTTCAACGCTCAGAACAACGGCTCCAATTTTCAGCTGGAGGAA
ATTTCCCGGGCTCAGCTTGTGCCCTCCACCTTCTACCTATGTGGAGTTTACAGTGTCTGGCACTGACTGTGTT
GCTAAAGAGGCCACAGAGGCAGCCAAGTGTAACCTGCTGGCAGAAAAGCAATATGGCTTTTGTAAGGCAACACTC
AGTGAGAAGCTTGGTGGGGCAGAGGTGTCAGTGACCTGCACGGTGTTCCAAACACAGCCCGTGACCTCACAGCCC
CAACCAGAAGGTGCCAATGAAGCAGTCCCCACCCCGTGGTGGACCCAGATGCACCTCCGTCCCCCTCCACTTGGC
GCACCTGGACTCCCTCCAGCTGGCTCACCCCCAGACTCCCATGTGTTACTGGCAGCTCCTCCAGGACACCAGTTG
CACCGGGCGCACTACGACCTGCGCCACACCTTCATGGGTGTGGTCTCATTGGGGTCACCCCTCAGGAGAAGTGTCG
CACCCCGGAAAAACACGCACAGTGGTGCAGCCTAGTGTTGGTGTCTGCTGCTGGGCCAGTGTTTCTCCATGTCCG
GGGAGGATCAGACACTTCAAGGTCTAGGCTAGACATGGCAGAGATGAGGAGGTTTGGCACAGAAAAACATAGCCAC
CATTTTGTCCAAGCCTGGGCATGGGTGGGGGGCCTTGCTCTGCTGGCCACGCAAGTGTACATGCGATCTACATTA
ATATCAAGTCTTGACTCCCTACTTCCCGTCATTCCCTACAGGACAGAAGCAGAGTGGGTGGTGGTTATGTTTGAC
AGAAGGCATTAGGTTGACAACTTGTCATGATTTTGACGGTAAGCCACCATGATTGTGTTCTCTGCCCTCTGGTTGA
CCTTACAAAAACCATTGGAAGTGTGACTTTGAAAGGTGCTCTTGCTAAGCTTATATGTGCCTGTTAATGAAAGTG
CCTGAAAGACCTTCCTTAATAAAGAAGGTTCTAAGCTG

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FIGURE 1331

MKSLVLLLCLAQLWGCHSAPHGPGLIYRQPNCDDEPETEEAALVAIDYINQNLPGYKHTLNQIDEVKVWPQQPSG
ELFEIEIDTLETTCHVLDPTPVARCSVRQLKEHAVEGDCDFQLLKLDGKFSVYAKCDSSPDSAEDVRKVCQDCP
LLAPLNDTRVVHAAKAALAAFNAQNNGSNFQLEEISRAQLVPLPPSTYVEFTVSGTDCVAKEATEAAKCNLLAEK
QYGFCKATLSEKLGGAEVAVTCTVFQTQPVTSQPQPEGANEAVPTPVVDPDAPPSPPLGAPGLPPAGSPPDShVL
LAAPPQHQLHRAHYDLRHTFMGVVSLGSPSGEVSHPRKTRITVVQPSVGAAAGPVVPPCPGRIRHFKV

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FIGURE 1332

TTTCTTTAAGAGGAAGACGCGGTCGTAGGTGCGAGGATTTCTGGTCCGCATGCTCCTGCTCCTGACTCACCGCTG
TTCGCTCTCGCCGCCGAGGAACAAGTCGGTCATGAAGCCGCGCAGCAGCCATGGCTTTTAAGGATACCGGAAAAG
CACCCGTGGAGCCGGAGGTGGCAATTCACCGAATTCGAATCACCCCTAACAGCCGCAGCGTAAAATCCTTGAAAA
AGGTGGGTGCTGACTTGATCAGAGGCGCAAAAGCAAAGAATCTCAAAGTGAAAGGAGGAGTTCGAATGCCTTCCA
AGACTTTGAGAATCACTACAAGAAAACTCCTTGTGGTGAAGGTTCTAAGACGTGGGATCGTTTCCAGATGAGAA
TTCACAAGCGACTCTTTGACTTGACAGTCCTTCTGAGATTGTTAAGCAGATTACTTCCATCAGTACTGAGCCAG
GAGTTGAGGTGGAAGTCACCATTGCAGATGCTTAAGTCAACTATTTTAATAAATTGATTACCAGTTGTT

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FIGURE 1333

GGAAAGACTATGTTTTAGGTGACCCGTGTGGCCTTTTTGTTGAGGCCCTTTAGGATACAAGGCCCCACCTAAAGA
CGCGACCCCTCCCGTAGGAGGGGGGAGGGCCCGGGGGCGGGAGCACAGCGGGGCCCCAGCCTCAGGCGGCGCGTC
ACTGAGCACAAAGGAGACAACAGCGAGGCGGCGAGCGGGCGCTGATCTTCGCTCGCCAGCCACTCGCAATTGCGGT
TACAGACCTGCAGCTCCCCCTCCCCAGCCGGCCCGCCCGCCTTTCTGTCTCCTCTCTCCCTCCGTACTGGACGG
CCCCGGTCCATTTCCGGGCTCCGGATATTTGGTATCGATTGGGGCCGGGGACGCGGAGCAGGTGGCCGCGGCGGG
GCAGCTGGGCCGCCAGCTTGGTGCTCGGGGACCGTCTCCCGCTGCTTTGGTACCAGCCCTGCCCGCCGACC
CGCTCCGTTCTCCGGCTGCGAGCCCTGCCGGCCGGACTTTGCGCCGCTCCGGCGCTGCTGCTGCGCTCGGGGC
CCCGCTCGGCGCCGGCGGTGACCGGGAAGCCCGCTTAAAGGGGCAACCGGGACCCTGGCCCGGTATGGCTGAAG
TCAGCATCGACCAGTCCAAGCTGCCTGGAGTCAAGGAAGTATGCCGAGATTTTGCTGTCCTGGAGGACCACACCC
TGGCTCACAGCCTGCAGGAACAAGAGATTGAGCATCATTTGGCATCGAACGTTACGCGGAACCGTTTGGTCCAGC
ATGATCTCCAGGTGGCTAAGCAGCTCCAAGAGGAAGATCTGAAAGCGCAGGCCAGCTCCAGAAGCGCTACAAAG
ACCTTGAACAACAAGACTGTGAAATTGCTCAGGAAATTCAGGAGAAGCTGGCTATTGAGGCAGAGAGACGACGCA
TTCAGGAGAAGAAGGATGAGGACATAGCTCGCCTTTTGCAAGAAAAGGAGTTACAGGAAGAGAAAAAGAGAAAGA
AACACTTTCCAGAGTTCCCTGCAACCCGTGCTTATGCAGATAGTTACTATTATGAAGATGGAGGAATGAAGCCAA
GAGTGATGAAAGAAGCTGTATCTACTCCATCACGAATGGCCACAGGGATCAGGAATGGTATGATGCTGAAATTG
CCAGAAAACCTGCAAGAAGAAGAACTTTGGCTACCCAGGTGGACATGAGAGCCGCTCAAGTAGCTCAAGATGAAG
AAATCGCTCGACTTCTAATGGCTGAAGAAAAGAAAGCTTACAAAAAGCCAAGGAGCGGGAGAAATCATCTTTGG
ACAAAAGAAAGCAAGACCCGAGTGGAAGCCAAAAACAGCTAAAGCAGCAAATTCGAAGTCAAAAGAGAGTGATG
AACCTCACCATTCTAAGAATGAAAGGCCAGCACGGCCACCACCACCTATCATGACAGATGGTGAAGATGCGGATT
ACACTCATTTTACAAACCAGCAGAGTTCCACACGGCATTTCTCAAAATCAGAGTCCTCTCATAAAGGTTTTTCAAT
ACAAACATTAACCTAGGAATCTGCCTTGAAATGGACTCACTATAGCAAATATTACTGGGTGATACAGAATG
AATTCTACACTTACTTTTTTCTCTGTGTTTGCAATTCCTGGGATTTATCCTCAAGTGCATTTCTGACCATAAGT
AATTTTAATTCATTTCAAATGTTTTGGTTATTATGATCACTTGGGCAGTATAAGAAAATGTAGCTTCTGAATAT
TGGCCACCTCTATGCTGCATATACTTCTTGGGATATAGTATCTAAGACCTTTGTAACTGCCATTTTGTAGGTA
TGGAGTTTGGTATCTAGGGAGTAGGCCTTATTTAGCAATTCAAATTTTATGGAGATGAATGATCAAAGTGAAACA
ATGTTTGGATGCAACGCAGAATAAAAGAATATAAGAAATAGCTTTTTGTTGCATTAATGTATGATATTTTGAAGG
ACAGAGCCTTTGCTTTTTGTATTCTTTAAGAAAAGCACAAACCATAAAGTATTTTAAAAAAGAAACACTTGGAGC
AATTGAAATATGTTATTCTGACTAGATGGACTGTAGAGGTTTTGCATTTCTCAGCCCTCCTGGGGAGATTGGCCT
AGATAGCATTCTTTAACACTTCCTCTGCTTTTGCTCAGTAGCAAGGCTTTCCTAAGCTCCTGGGCAATGGAACA
TTTATTAGTATTTATTGACAAAATTTAGTTCTCTGAAATTTTAACTCATATATATGAAAACCTTTGTATTCCAT
CTCTTCTTTTTTCAATTTACTTGTAGAGCCAAGGAAATGGAATTGAAAGATGATTGCATAAGTAATGATGCCATCCT
TCTCTCTGGCTGTAGACTGAGGCTTTTCTCTTGCTTCAAGTCAGAGCAGTATTTGTTGATAACCTCTCAATAATG
TTTGGTTTACATGCCAGTAATTAAATTAATTCAACATGAAGTTGAATTTGATGAAGTGGTCATCTATCCAAGTAT
TTGGTTTTTGTGTTTTGTTTTGTTTTGTTTTGAGTTGGAGTCTCGCCCTGTCACACAGGCTGGAGTGCAGTGGTG
CAATCTTGGCTCACTGCAACCTCCGCCACCTGGGCTGGAGCAATCCCCTGCCTCAGCCTCCCAAGTAGCTGGAA
TTACAGGCATGTGTCACCACACCCGGCTAATTTTGTATTTTGTAGTAAAGAGCGGGTTTACCATGTTGGCCAGG
CTGGTCTCGAACCCTGACCTCAAGTGATCCACCTGC

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FIGURE 1334

MAEVSIDQSKLPGVKEVCRDFAVLEDHTLAHSLQEQEIEHHLASNVQRNRLVQHDLQVAKQLQEEDLKAQAQLQK
RYKDLEQQDCEIAQEIQEKLAIEAERRRIQEKKDEDIARLLQEKELQEEKKRKKHFPEFPATRAYADSYYYEDGG
MKPRVMKEAVSTPSRMAHRDQEWYDAEIAARKLQEEELLATQVDMRAAQVAQDEEIAARLLMAEEKKAYKKAKEREK
SSLDKRKQDPEWKPKTAKAANSKSKESDEPHHSKNERPARPPPPIMTDGEDADYTHFTNQQSSTRHFSKSESSHK
GFHYKH

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FIGURE 1335A

CGTTGATATCAAAGACAGTTGAAGGAAATGAATTTTGAACTTCACGGTGTGCCACCCTACAGTACTGCCCTGAC
CCTTACATCCAGCGTTTCGTAGAAACCCAGCTCATTCTCTTGGAAGAAAGTTATTACCGATCCACCATGTCC
CAGAGCACACAGACAAATGAATTCCTCAGTCCAGAGGTTTTCCAGCATATCTGGGATTTTCTGGAACAGCCTATA
TGTTCACTTCAGCCCATTGACTTGAACCTTTGTGGATGAACCATCAGAAGATGGTGGCACAACAAAGATTGAGATT
AGCATGGACTGTATCCGCATGCAGGACTCGGACCTGAGTGACCCCATGTGGCCACAGTACACGAACCTGGGGCTC
CTGAACAGCATGGACCAGCAGATTGAGAACGGCTCCTCGTCCACAGTCCCTATAACACAGACCACGCGCAGAAC
AGCGTCACGGCGCCCTCGCCCTACGCACAGCCAGCTCCACCTTCGATGCTCTCTCTCCATCACCCGCCATCCCC
TCCAACACCGACTACCCAGGCCCGCACAGTTTCGACGTGTCTTCCAGCAGTCGAGCACCGCCAAGTCGGCCACC
TGGACGTATTCCACTGAACTGAAGAACTCTACTGCCAAATTGCAAAGACATGCCCCATCCAGATCAAGGTGATG
ACCCACCTCCTCAGGGAGCTGTTATCCGCGCCATGCCTGTCTACAAAAAGCTGAGCACGTCACGGAGGTGGTG
AAGCGGTGCCCCAACCATGAGCTGAGCCGTGAATTCAACGAGGGACAGATTGCCCTCCTAGTCATTTGATTGAG
GTAGAGGGGAACAGCCATGCCAGTATGTAGAAGATCCCATCACAGGAAGACAGAGTGTGCTGGTACCTTATGAG
CCACCCAGGTTGGCACTGAATTCACGACAGTCTTGTACAATTTTCATGTGTAACAGCAGTTGTGTTGGAGGGATG
AACCGCCGTCCAATTTTAATCATTGTTACTCTGGAAACCAGAGATGGGCAAGTCTGGGCCGACGCTGCTTTGAG
GCCCCGATCTGTGCTTGCACAGGAAGAGACAGGAAGGCGGATGAAGATAGCATCAGAAAGCAGCAAGTTTCGGAC
AGTACAAAGAACGGTGATGGTACGAAGCGCCGTTTCGTGAGAACACACATGGTATCCAGATGACATCCATCAAG
AAACGAAGATCCCAGATGATGAACTGTTATACTTACCAGTGAGGGGGCCGTGAGACTTATGAAATGCTGTTGAAG
ATCAAAGAGTCCCTGGAATCATGCAGTACCTTCTCAGCACACAATTGAAACGTACAGGCAACAGCAACAGCAG
CAGCACCAGCACTTACTTCAGAAACAGACCTCAATACAGTCTCCATCTTCATATGGTAACAGCTCCCCACCTCTG
AACAAATGAACAGCATGAACAAGCTGCCTTCTGTGAGCCAGCTTATCAACCCTCAGCAGCGCAACGCCCTCACT
CCTACAACCATTCCTGATGGCATGGGAGCCAACATTCCCATGATGGGCACCCACATGCCAATGGCTGGAGACATG
AATGGACTCAGCCCCACCCAGGCACTCCCTCCCCCACTCTCCATGCCATCCACCTCCCAGTGACACCCCCACCT
CCGTATCCCACAGATTGCAGCATTGTGAGTTTCTTAGCGAGGTTGGGCTGTTTCATCATGTCTGGACTATTTACAG
ACCCAGGGGCTGACCACCATCTATCAGATTGAGCATTACTCCATGGATGATCTGGCAAGTCTGAAAATCCCTGAG
CAATTTGACATGCGATCTGGAAGGGCATCCTGGACCACCGGCAGCTCCACGAATTCTCCTCCCCTTCTCATCTC
CTGCGGACCCCAAGCAGTGCCTCTACAGTCAGTGTGGGCTCCAGTGAGACCCGGGGTGAGCGTGTATTGATGCT
GTGCGATTACCCCTCCGCCAGACCATCTCTTTCCACCCCGAGATGAGTGGAATGACTTCAACTTTGACATGGAT
GCTCGCCGCAATAAGCAACAGCGCATCAAAGAGGAGGGGAGTGAAGCCTCACCATGTGAGCTCTTCCATCCCTC
TCCTAACTGCCAGCYCCCTAAAGCACTCCTGCTTAATCTTCAAAGCCTTCTCCCTAGCTCCTCCCCTTCTCTT
GTCTGATTTCTTAGGGGAAGGAGAAGTAAGAGGCTACCTCTTACCTAACATCTGACCTGGCATCTAATTCTGATT
CTGGCTTTAAGCCTTCAAACCTATAGCTTGCAGAACTGTAGCTGCCATGGCTAGGTAGAAGTGAGCAAAAAAGAG
TTGGGTGTCTCCTTAAGCTGCAGAGATTTCTCATTGACTTTTATAAAGCATGTTACCCCTTATAGTCTAAGACTA
TATATATAAATGTATAAATATACAGTATAGATTTTTGGGTGGGGGCATTGAGTATTGTTTAAATGTAATTTAA
ATGAAAGAAAATTGAGTTGCACCTATTGACCATTTTTTAATTTACTTGTGTTTGGATGGCTGTCTATACTCCTTC
CCTTAAGGGGTATCATGTATGGTATAGGTATCTAGAGCTTAATGCTACATGTGAGTGACGATGATGTACAGATT
CTTTCAGTTCTTTGGATTCTAAATACATGCCACATCAAACCTTTGAGTAGATCCATTTCCATTGCTTATTATGTA
GGTAAGACTGTAGATATGTATTCTTTCTCAGTGTGGTATATTTTATATTACTGACATTTCTTCTAGTGATGAT
GGTTCAGTTGGGGTGATTTAATCCAGTTATAAGAAGAAGTTCATGTCCAAACGTCCTCTTTAGTTTTTGGTTGG
GAATGAGGAAAATTCTTAAAGGCCCATAGCAGCCAGTTCAAAAACACCCGACGTCATGATTTGAGCATATCAG
TAACCCCTTAAATTTAATACCAGATACCTTATCTTACAATATTGATTGGGAAAACATTTGCTGCCATTACAGAG
GTATTAATAACTAAATTTCACTACTAGATTGACTAACTCAAATACACATTTGCTACTGTTGTAAGAATTCTGATTG
ATTTGATTGGGATGAATGCCATCTATCTAGTTCTAACAGTGAAGTTTTACTGTCTATTAATATTCAGGGTAAATA
GGAATCATTAGAAATGTTGAGTCTGTACTAAACAGTAAGATATCTCAATGAACCATAAATTCAACTTTGTAATA
ATCTTTTGAAGCATAGATAATATTGTTTGGTAAATGTTTCTTTTGGTAAATGTTTCTTTTAAAGACCTCC
TATTCTATAAACTCTGCATGTAGAGGCTTGTTTACCTTTCTCTCTCTAAGGTTTACAATAGGAGTGGTGATTTG
AAAAATATAAAATTATGAGATTGGTTTTCTGTGGCATAAATTGCATCACTGTATCATTTTCTTTTTTAAACGGT
AAGAGTTTCAGTTTGTGGAAGTAACTGTGAGAACCAGTTTCCCGTCCATCTCCCTTAGGGACTACCCATAGA
CATGAAAGGTCCCCACAGAGCAAGAGATAAGTCTTTCATGGCTGCTGTTGCTTAAACCACTTAAACGAAGAGTTC

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FIGURE 1335B

CCTTGAAACTTTGGGAAAACATGTTAATGACAATATTCCAGATCTTTCAGAAATATAACACATTTTTTTGCGATGC
ATGCAAATGAGCTCTGAAATCTTCCCATGCATTCTGGTCAAGGGCTGTCATTGCACATAAGCTTCCATTTTAATT
TTAAAGTGCAAAAGGGCCAGCGTGGCTCTAAAAGGTAATGTGTGGATTGCCTCTGAAAAGTGTGTATATATTTTG
TGTGAAATTGCATACTTTGTATTTTGATTATTTTTTTTTTCTTCTGGGATAGTGGGATTTCCAGAACCACACTT
GAAACCTTTTTTTATCGTTTTTTGTATTTTCATGAAAATACCATTTAGTAAGAATACCACATCAAATAAGAAATAA
TGCTACAATTTTAAGAGGGGAGGGGAAGGGAAGTTTTTTTTTTATTATTTTTTTTAAAATTTTGTATGTTAAAGAGA
ATGAGTCCTTGATTTCAAAGTTTTGTTGTACTTAAATGGTAATAAGCACTGTAAACTTCTGCAACAAGCATGCAG
CTTTGCAAACCCATTAAGGGGAAGAATGAAAGCTGTTTCTTGGTCCTAGTAAGAAGACAAACTGCTTCCCTTACT
TTGCTGAGGGTTTGAATAAAACCTAGGACTTCCGAGCTATGTCAGTACTATTTCAGGTAACACTAGGGCCTTGGA
TTCCTGTACTGTGTCTCATGGATTTGGCACTAGCCAAAGCGAGGCACCTTACTGGCTTACCTCCTCATGGCAGC
CTACTCTCCTTGAGTGTATGAGTAGCCAGGGTAAGGGGTAAAGGATAGTAAGCATAGAAACCACTAGAAAGTGG
GCTTAATGGAGTTCTTGTGGCCTCAGCTCAATGCAGTTAGCTGAAGAATTGAAAAGTTTTTGTGTTGGAGACGTTT
ATAAACAGAAATGGAAAGCAGAGTTTTTCATTAAATCCTTTTACCTTTTTTTTTTCTTGGTAATCCCCTAAATAA
CAGTATGTGGGATATTGAATGTTAAAGGGATATTTTTTTTCTATTATTTTATAATTGTACAAAATTAAGCAAAT
GTTAAAAGTTTTATATGCTTTATTAATGTTTTCAAAGGTATTATACATGTGATACATTTTTTAAGCTTCAGTTG
CTTGCTTCTGGTACTTTCTGTTATGGGCTTTTGGGGAGCCAGAAGCCAATCTACAATCTTTTTTGTGTTGCCAG
GACATGCAATAAAATTTAAAAAATAAATAAAACTAATTAAGAAATAAA

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FIGURE 1336

MNFETSRCATLQYCPDPYIQRFVETPAHFSWKESYYRSTMSQSTQTNEFLSPEVVFQHIWDFLEQPICSVQPIDLN
FVDEPSEDGATNKIEISMDCIRMQSDLSLSDPMWPOYTNLGLLNSMDQQIQNGSSSTSPYNTDHAQNSVTAPSPYA
QPSSTFDALSPSPAIPSNLDYPGPHSFDVSFQQSSTAKSATWTYSTELKKLYCQIAKTCPIQIKVMTPPPQGAVI
RAMPVYKKAHEHVTEVVKRCPNHELSTREFNEGQIAPPSHLIRVEGNSHAQYVEDPITGRQSVLVPYEPPQVGTEFT
TVLYNFMCNSSCVGGMNRRPILIIIVTLETRDGQVLGRRCFEARICACPRDRKADEDSIRKQQVSDSTKNGDGTK
RPFRRQNTHGIMQTSIKKRRSPDDELLYLPVRGRETYEMLLKIKESLELMQYLPQHTIETYRQQQQQQHQHLLQKQ
TSIQSPSSYGNSSPPLNKMNSMNKLPSVSQLINPQQRNALPTTIPDGMGANIPMMGTHMPMAGDMNGLSPTQAL
PPPLSMPSTSQCTPPPPYPTDCSIVSFLARLGCSSCLDYFTTQGLTTIYQIEHYSMDDLASLKIPEQFRHAIWKG
ILDHRQLHEFSSPSHLLRTPSSASTVSVGSSETRGERVIDAVRFTLRQTI SFPPRDEWNDNFNDMDARRNKQORI
KEEGE

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FIGURE 1337

CATTTTGCGAAGTTTAACCAACCCGGGTACCGCCGTTCTTGTCACCACCAACTGGTTTTGTAACAGTTGCGAGAAC
CTTCTCCTTCTTTTTCTTTCAACCTTGGATTTAGCGGCTGAGTACTTCCTCTTGTACATGGCCTTTCTGGAATC
CATGGCAGATCGGGAATACCTGCCAATTCCTCTGACAAGGACAGGGTTGCGGCTGCAATGGGGCTTCCCCTTGTT
GGGCTTTTTAGCTTTGAGGTTACCCTTTTTCACCTTGCCACCAGCATCAACCTTCTTGGCTTCGGGTTTCTTCTC
TTTAG

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FIGURE 1338

ATGCCTGCTGCCACGTGGCTGGTCCTCCTCCTGCTGTGGCTGAGCCTTGGGGTGAAGACAGCTTCTCAGATG
ACCAAGATGGTGCTGCAGATGGTGCTGAGGATGGAGAACCCACCAAGCCCCGCTAGGAGCCACCTAGACTGGATG
CAGAGCATGGAAATAAGCCTCGGTGTGGAGAGGGCCTGTCCTCAGGGCCTGGCAGATGTAGGCGATTCTTACCAC
GTCTCCTTCGCTACCCCGAAAGGCACAATCATAGGCCTTTCTCGTCTTTTAAGGGTTTTTACTTCCATGGGGAAC
TATGTGTTGGATGAGAAAAGTATCCGGGGAAGGGGACAGAGGTTTCAAGAAAGCTCTGCGAGTCTTGACGCTGGTC
TGCTTCTTGGCTCACCTTGAAGGTGGACGCTGGCCCCACACATCCCCTCTTAAAGACGCAGGCCGATAGCCAG
CAGATCCTGGGGCTTGCTGGCCCCAAAGCAGACACTGCGATGACAACGGACGACACAGAAGTGCCCGCTATGACT
CTAGACCCGGGCCACGCCGCTCTGGAAGCTCAAACGCTGAGCGCTGAGACCTCTTCTAGGGCCTCAACCCAGCC
GGCCCCATTCCAGAAGCAGAGACCAGGGGAGCCAAGAGAATTTCCCTGCAAGAGAGACCAGGAGTTTCACAAAA
ACATCTCCCAACTTCATGGTGCTGATCGCCACCTCCGTGGAGACATCAGCCGCCAGTGGCAGCCCCGAGGGAGCT
GGAATGACCACAGTTTCAAGCATCACAGGCAGTGATCCCAGGGAAGCCATCTTTGACACCCCTTTCACCCGATGAC
AGCTCTGAAGAGGCAAGACACTCACAATGGACATATTGACATTGGCTCACACCTCCACAGAAGCTAAGGGCCTG
TCCTCAGAGAGCAGCGCCTCTTCCGACAGCCCCATCCAGTCATCACCCTGTCAGGGCCTCAGAGAGCAGCGCC
TCTTCCGACGGCCCCCATCCAGTCATCACCCTGTCAGGGCCTCAGAGAGCAGCGCCTCTTCCGACGGCCCCCAT
CCAGTCATCACCCTGTCAGGGCCTCAGAGAGCAGCGCCTCTTCCGACGGCCCCCATCCAGTCATCACCCTGTC
CGGGCCTCAGAGAGCAGCGCCTCTTCCGACGGCCCCCATCCAGTCATCACCCTGTCAGGGCCTCAGAGAGCAGC
GCCTCTTCCGACGGCCCCCATCCAGTCATCACCCTGTCAGGGCCTCAGAGAGCAGCGCCTCTTCCGACGGCCCC
CATCCAGTCATCACCCTGTCAGGGCCTCAGAGAGCAGCGCCTCTTCCGACGGCCCCCATCCAGTCATCACCCTG
TCAGGGCCTCAGAGAGCAGCGCCTCTTCCGACGGCCCCCATCCAGTCATCACCCTGTCAGGGCCTCAGAGAGC
AGCGCCTCTTCCGACGGCCTCCATCCAGTCATCACCCTGTCAGGGCCTCAGAGAGCAGCGCCTCTTCCGACGGC
CCCCATCCAGTCATCACCCTGTCAGGGCCTCAGAGAGCAGCGCCTCTTCCGACGGCCCCCATCCAGTCATCACC
CCTCATGGTCCCCGGGATCTGACGTCACTCTCCTCGCTGAAGCCCTGGTGACTGTACAAAACATCGAGGTTATT
AATTGCAGCATCACAGAAATAGAAACAACGACTTCCAGCATCCCTGGGGCCTCAGACACAGATCTCATCCCCACG
GAAGGGGTGAAGGCCTCGTCCACCTCCGATCCACCAGCTCTGCCTGACTCCACTGAAGCAAAAACACATCACT
GAGGTCACAGCCTCTGCGAGACCCTGTCCACAGCCGGCACCACAGAGTCAGCTGCACCTGATGCCACGGTTGGG
ACCCCACTCCCCAATAACAGCGCCACAGAAAGAGAAGTGACAGCACCCGGGGCCACGACCTCAGTGGAGCTCTG
GTCACAGTTAGCAGGAATCCCCTTGAAGAAACCTCAGCCCTCTCTGTTGAGACACCAAGTTACGTCAAAGTCTCA
GGAGCAGCTCCGGTCTCCATAGAGGCTGGGTGAGCAGTGGGCAAAACAACCTTCTTTGCTGGGAGCTCTGCTTCC
TCCTACAGCCCCTCGGAAGCCGCCCTCAAGAACTTCAACCCCTTCAAGACACCGACCATGGACATCGCAACCAAG
GGGCCCTTCCCCACAGCAGGGACCTCTTCCCTTCTGTCCCTCCGACTACAACCAACAGCAGCCGAGGGACGAAC
AGCACCTTAGCCAAGATCACAACCTCAGCGAAGACCACGATGAAGCCCCCAACAGCCACGCCCACGACTGCCCCG
ACGAGGCCGACCACAGACGTGAGTGACAGGTGAAAATGGAGGTTTCTCCTCCTGCGGCTGAGTGTGGCTTCCCCG
GAAGACCTCACTGACCCACAGAGTGGCAGAAAGGCTGATGCAGCAGGAGAGGCTAACGGACATCAGCTGCAGCCAG
GCATGTCCCGTATGCCAAAAGAGGGTGTGCCCTAGCCTGGGGCCCCACCGACAGACTGCAGCTGCGTTACTGT
GCTGAGAGGTACCCAGAAGGTTCCCATGAAGGGCAGCATGTCCAAGCCCTGACCCACAGATGTGGCAACAGGACC
CTCGCTCACATCCACCGGAGTTTGTGTACATTGTACGTGCTCGAGGACAAGCAGCCGGTAGTATTACCTCTGTC
ATCAGAGAAGCTGGCGTGGAGCCCTCCACATGA

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FIGURE 1339

MTTDDTEVPAMTLAPGHAALETQTLAETSSRASTPAGPIPEAETRGAKRISPARETRSFTKTSPNFMVLIATSV
ETSAASGSPEGAGMTTVQTITGSDPREAIFDTLCTDDISEEAKTLTMDILTLAHTSTEAKGLSSESSASSDGPHP
VITPSRASESSASSDGLHPVITPSRASESSASSDGLHPVITPSRASESSASSDGPHPVITPSWSPGSDVTLLAEA
LVTVTNIEVINCSITEIETTTSSIPGASDSDLIPTEGVKASSTSDPPALPDSTNTKPHITEVTASAETLSTAGTT
ESAAPDATIGTPLPTNSTIEREVTAPGATTLGALATGNPLEETSALSVETPSYVKVSGAAPVSI EAGSAVGKTT
SFAGSSASSYSPLAALKNFTPSETLTTDIATKGPFPTSRAPLPSVPPTTTNSS

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FIGURE 1340A

ACGCCACCCCTCTTCCTGTCACCAGCCTTTCTCAGTATCCACAGGTACGCCACCCCTCTTGCTGTCAGCAGTG
CTACCTCAGCTTCCACAGTATCCTCGGACTCCCCTCTGAAGATGGAAACACCAGGAATGACAACACCGTCACTGA
AGACAGACGGTGGGAGACGCACAGCCACATCACCACCCCCACAACCTCCCAGACCATCATTTCCACCATTCCCA
GCACTGCCATGCACACCCGCTCCACAGCTGCCCCATCCCCATCCTGCCTGAGAGAGGAGTTTCCCTCTTCCCCT
ATGGGGCAGGCGCCGGGGACCTGGAGTTCGTAGGAGGACCGTGGACTTCACCTCCCCTCTTCAAGCCGGCGA
CTGGCTTCCCCCTTGCTCCTCTCTCCGTGATTCCCTCTACTTCACAGACAATGGCCAGATCATCTTCCCAGAGT
CAGACTACCAGATTTTCTCCTACCCCAACCCACTCCCAACAGGCTTCACAGGCCGGGACCCTGTGGCCCTGGTGG
CTCCGTTCTGGGACGATGCTGACTTCTCCACTGGTCGGGGGACCACATTTTATCAGGAATACGAGACGTTCTATG
GTGAACACAGCCTGCTAGTCCAGCAGGCCGAGTCTTGATTAGAAAGATGACAAACAACGGGGGCTACAAGGCCA
GGTGGGCCCTAAAGGTCACGTGGGTCAATGCCACGCCTATCCTGCCCAGTGGACCCTCGGGAGCAACACCTACC
AAGCCATCCTCTCCACGACGGGAGCAGGTCTATGCCCTGTTTCTCTACCAGAGCGGTGGGATGCAGTGGGACG
TGGCCAGCGCTCAGGCAACCCGGTGCTCATGGGCTTCTCTAGTGGAGATGGCTATTTGAAAAACAGCCCCTGA
TGTCCCAGCCAGTGTGGGAGAGGTATCGCCCTGATAGATTCTGAATTCCAACCTCAGGCCTCCAAGGGCTGCAGT
TCTACAGGCTACACCGGGAAGAAAGGCCCACTACCGTCTCGAGTGCCTGCAGTGGCTGAAGAGCCAGCCTCGGT
GGCCAGCTGGGGCTGGAACAGGTCTCCTGCCCTTGTTCTTGGCAGCAGGGACGACGGGACTTACGATTCCAAC
CCGTACGATAGGTGCTGGGGCTCGGCAGTAGGCAGCTGTGCAGCTTCACCTCTTGGCGAGGAGGCGTGTGCT
GCAGCTACGGGGCCCTGGGGAGAGTTTCGTGAAGGCTGGCAGCTGCAGCGTCTTGGCAGTTGGCCAGGAACCTGG
AGCCACAGAGCTGGTGCTGCCGCTGGAATGACAAGCCCTACCTCTGTGCCCTGTACCAGCAGAGGCGGCCCCACG
TGGGCTGTGCTACATACAGGCCCCACAGCCGCTGGATGTTGGGGACCCCCACATCACCACCTTGATGGTG
TCAGTTACACCTTCAATGGGCTGGGGGACTTCTGTGCTGGTGGGGCCCAAGACGGGAACCTCCTCCTTCTGCTTC
AGGGCCGCACCGCCAGACTGGCTCAGCCAGGCCACCAACTTCATCGCCTTTGCGGCTCAGTACCGCTCCAGCA
GCCTGGGCCCCGTCACGGTCCAATGGCTCCTTGAGCCTCACGACGCAATCCGTGTCTGCTGGATAACCAGACTG
TGACATTTACGCTGACCATGAAGACGGCGGAGGCCAGGAGACGTTCAACGCCACCGGAGTCTCCTGAGCCGCA
ACGGCTCTGAGGTCTCGGCCAGCTTCGACGGCTGGGCCACCGTCTCGGTGATCGCGCTCTCCAACATCCTCCAGC
CCTCCGCCAGCCTCCCGCCCGAGTACCAGAACCGCACGGAGGGGCTCCTGGGGGTCTGGAATAACAATCCAGAGG
ACGACTTCAGGATGCCCAATGGCTCCACCATTCCCCCAGGGAGCCCTGAGGAGATGCTTTTCCACTTTGGAATGA
CCTGGCAGATCAACGGGACAGGCCTCCTTGGCAAGAGGAATGACCAGCTGCCTTCCAACCTTCACCCCTGTTTTCT
ACTCACAACCTGCAAAAAACAGCTCCTGGGCTGAACATTTGATCTCCAACCTGTGACGGAGATAGCTCATGCATCT
ATGACACCCTGGCCCTGCGCAACGCAAGCATCGGACTTCACACGAGGGAAGTCAGTAAAACTACGAGCAGGCGA
ACGCCACCCTCAATCAGTACCCGCCCTCCATCAATGGTGGTCTGTGATTGAAGCCTACAAGGGGCAGACCACGC
TGATTAGTACACCAGCAATGCTGAGGATGCCAACTTCACGCTCAGAGACAGCTGCACCGACTTGAGCTCTTTG
AGAATGGGACGTTGCTGTGGACACCCAAGTCGCTGGAGCCATTCACTCTGGAGATTCTAGCAAGAAGTGCCAAGA
TTGGCTTGGCATCTGCACTCCAGCCCAGGACTGTGGTCTGCCATTGCAATGCAGAGAGCCAGTGTTTGTACAATC
AGACCAGCAGGGTGGGCAACTCCTCCCTGGAGGTGGCTGGCTGCAAGTGTGACGGGGGCACCTTCGGCCGCTACT
GCGAGGGCTCCGAGGATGCCTGTGAGGAGCCGTGCTTCCCGAGTGTCCACTGCGTTTCTGGGAAGGGCTGCGAGG
CCTGCCCTCCAAACCTGACTGGGGATGGGCGGCACTGTGCGGCTCTGGGGAGCTCTTTCTGTGTGAGAACCAGT
CCTGCCCTGTGAATTACTGCTACAATCAAGGCCACTGCTACATCTCCAGACTCTGGGCTGTGAGCCATGTGCA
CCTGCCCCCAGCCTTCACTGACAGCCGCTGCTTCTGGCTGGGAACAACCTCAGTCCAACCTGTCAACCTAGAAC
TTCCCTTAAGAGTCATCCAGCTCTTGCTCAGTGAAGAGGAAAATGCCCTCCATGGCAGAAGTCAACGCCTCGGTGG
CATAAGACTGGGGACCTGGACATGCGGGCCTTTCTCCGCAACAGCCAAGTGAACGAATCGATTCTGCAGCAC
CGGCCTCGGGAAGCCCCATCCAACACTGGATGGTCACTCTCGGAGTTCCAGTACCGCCCTCGGGGCCCGGTCAATTG
ACTTCTGAACAACAGCTGCTGGCCGCGGTGGTGGAGGCGTTCTTATACCACGTTCCACGGAGGAGTGAGGAGC
CCAGGAACGACGTGGTCTTCCAGCCCATCTCCGGGGAAGACGTGCGCGATGTGACAGCCCTGAACGTGAGCACGC
TGAAGGCTTACTTCAGATGCGATGGCTACAAGGGCTACGACCTGGTCTACAGCCCCCAGAGCGGCTTCACCTGCG
TGTCCCGTGCAGTAGGGCTACTGTGACCATGGAGGCCAGTGCCAGCACCTGCCAGTGGGCCCCGCTGCAGCT
GTGTGCTCTTCTCCATCTACACGGCCTGGGGCGAGCACTGTGAGCACCTGAGCATGAACTCGACGCGTTCTTCG
GCATCTTCTTTGGGGCCCTGGGCGGCCTCTTGCTGCTGGGGGTCGGGACGTTCTGTGGTCTGCGCTTCTGGGGTT
GCTCCGGGGCCAGGTTCTCCTATTTCTGAACTCAGCTGAGGCCTTGCTTGAAGGGGCAGCTGTGGCCTAGGCT

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FIGURE 1340B

ACCTCAAGACTCACCTCATCCTTACCGCACATTTAAGGCGCCATTGCTTTTGGGAGACTGGAAAAGGGAAGGTGA
CTGAAGGCTGTCAGGATTCTT

1444/6881
FIGURE 1341

AGTTCTGTGGAGCAGCGGTGGCCGGCTAGGATGGGCTGTCTCTGGGGTCTGGCTCTGCCCCTTTTCTTCTTCTGC
TGGGAGGTTGGGGTCTCTGGGAGCTCTGCAGGCCCCAGCACCCGAGAGCAGACACTGCGATGACAACGGACGAC
ACAGAAGTGCCCGCTATGACTCTAGCACCGGGCCACGCCGCTCTGGAACTCAAACGCTGAGCGCTGAGACCTCT
TCTAGGGCCTCAACCCAGCCGGCCCCATTCCAGAAGCAGAGACCAGGGGAGCCAAGAGAATTTCCCTGCAAGA
GAGACCAGGAGTTTCAAAAAACATCTCCCAACTTCATGGTGTCTGATCGCCACCTCCGTGGAGACATCAGCCGCC
AGTGGCAGCCCCGAGGGAGCTGGAATGACCACAGTTCAGACCATCACAGGCAGTGATCCCGAGGAAGCCATCTTT
GACACCCTTTGCACCGATGACAGCTCTGAAGAGGCAAAGACACTCACAATGGACATATTGACATTGGCTCACACC
TCCACAGAAGCTAAGGGCCTGTCTCAGAGAGCAGTGCCCTCTTCCGACGGCCCCCATCCAGTCATCACCCCGTCA
CGGGCCTCAGAGAGCAGCGCCTCTTCCGACGGCCCCCATCCAGTCATCACCCCGTCACGGGCCTCAGAGAGCAGC
GCCTCTTCCGACGGCCCCCATCCAGTCATCACCCCGTCACGGGCCTCAGAGAGCAGCGCCTCTTCCGACGGCCCC
CATCCAGTCATCACCCCGTCATGGTCCCCGGGATCTGATGTCACTCTCCTCGCTGAAGCCCCCTGGTGACTGTAC
AAACATCGAGGTTATTAATTGCAGCATCACAGAAATAGAAACAACAACCTTCCAGCATCCCTGGGGCCTCAGACAT
AGATCTCATCCCCACGGAAGGGGTGAAGGCCTCGTCCACCTCCGATCCACCAGCTCTGCCTGACTCCACTGAAGC
AAAACCACACATCACTGAGGTACAGCCTCTGCCGAGACCCTGTCTCAGCCCTCTCTGTTGAGACACCAAGTTA
CGTCAAAGTCTCAGGAGCAGCTCCGGTCTCCATAGAGGCTGGGTGAGCAGTGGGCAAAACAACCTTCCCTTTGCTGG
GAGCTCTGCTTCCTCCTACAGCCCCCTCGGAAGCCGCCCTCAAGAACTTCAACCCCTTCCAGAGACACCGACCATGGA
CATCGCAACCAAGGGGCCCTTCCCCACAGCAGGGACCCCTCTTCCTTCTGTCCCTCCGACTACAACCAACAGCAG
CCGAGGGACGAACAGCACCTTAGCCAAGATCACAACTCAGCGAAGACCACGATGAAGCCCCCAACAGCCACGCC
CACGACTGCCCCGACGAGGCCGACCACAGACGTGAGTGCAGGTGAAAATGGAGGTTTCTCCTCCTGCGGCTGAG
TGTGGCTTCCCCGGAAGACCTCACTGACCCCAGAGTGGCAGAAAGGCTGATGCAGCAGCTCCACCGGGAACCTCCA
CGCCCACGCGCCTCACTTCCAGGTCTCCTTACTGCGTGTGAGGAGAGGCTAACGGACATCAGCTGCAGCCAGGCA
TGTCCCGTATGCCAAAAGAGGGTGTGCCCCTAGCCTGGGCCCCACCGACAGACTGCAGCTGCGTTACTGTGCT
GAGAGGTACCCAGAAGGTTCCCATGAAGGGCAGCATGTCCAAGCCCCTAACCCAGATGTGGCAACAGGACCCTC
GCTCACATCCACCGAGTGTATGTATGGGGAGGGGCTTACCTGTTCCAGAGGTGTCCTTGGACTCACCTTGGC
ACATGTTCTGTGTTTTCAGTAAAGAGAGACCTGATCACCCATCTGTGTGCTTCCATCCTGCATTAAAATTCACTCA
GTGTGGCCAG

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FIGURE 1342

MGCLWGLALPLFFFCWEVGVSGSSAGPSTRRADTAMTTDDTEVPAMTLAPGHALETQTLAETSSRASTPAGPI
PEAETRGAKRISPARETRSF TKTSPNFMVLIATSVETSAASGSPEGAGMTTVQTITGSDPEEAIFDTLCTDDSSE
EAKTLTMDILTLAHTSTEAKGLSSESSASSDGPHPVITPSRASESSASSDGPHPVITPSRASESSASSDGPHPVI
TPSRASESSASSDGPHPVITPSWSPGSDVTLLEALVTVTNIEVINCSITEIETTTSSIPGASDIDLIPTEGVKA
SSTSDPPALPDSTEAKPHITEVTASAETLSTAGTTESAAPHATVGTPLPTNSATEREVTAPGATTLGALVTVSR
NPLEETSALSVETPSYVKVSGAAPVSI EAGSAVGKTTSFAGSSASSYSPSEAALKNFTPSETPTMDIATKGPFPT
SRDPLPSVPPTTTNSSRGTNSTLAKITTS AKTTMKPPTATPTTARTRPTTDVSAGENGGFLLLRLSVASPEDLTD
PRVAERLMQQLHRELHAHAPHFQVSLLRVRRG

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FIGURE 1343

GGGCCGCACTGGACCAGGGATGAGAGTGGGTGCCCGGGACTCGCCTATACTGCCTGGGGGTGCAGCCCGCACTCC
TCACTATAGTCAAATCGACTATGCGTGCTTTCCAGGGGGCCCGGAGAGGACTCCATGGGGAGGGATGCTTACCTT
GTGGGCTTTGGAATATAAGCCCTTTCATCTTCTCCGCTGGTCCTCACCACGTTGGCAAGGCAGGTATTGTGACCC
TGTTTTCTCAGGTGAGGACATGGAGGCTGGGAGGGGTCTAGAGACTGGCCTGGCTAGTAGGAGGCTGAGTCAGGA
TTTGAACCAGCAGATCATCTGACCCCAGAGCCGGTCGTGGGCGGCACAGCGGGAGCTGCAACCGAGGCTCTTGAC
TCCTGCCTCGTCATTCCCTGAGGTCCACAGGACAACCAGCTGGGGACCTGGAGCCCCATCCTGACGTCCTGGGGA
GAGGTGCTAGGCCCTTTTGGGTCTATGAGCTACTTTTGGGCCAGTGGAGCCGGGTAAAGACCATCTCAAACCCCT
GTGCCAGGGGAGGTGAGACTCCAAGAGCGCCACCTTTGGGCTTCCAGCTGTGTGGGCTGCACCAAGAAGGCTCAG
AGAATTAGGGGGTTTCGTATTTGATCCTTTTCCCTTCCAAGACTGGGATTACCAGATAAAACACAGGGCATCCAGTT
ACATTTGAATTTTCAAGTAACAATTTTTTTTTTAAGTGTAAGTACGTAGCCAATATTGCATGAGAAATACTCATGCT
AAAAAGTTATTTCGTCAATTTATCTGAACGCGAGTTCAAATTTAACCGAGTACCCTGTATTTTTTATTGCTAAATC
TAGAAACCCCTCTCCAAGAGACTCCTTGGCCCACTCACAGGGAGAGCCCGATCTCCCTCTAGACAGGGGAGGCCCC
CTTTCTCAGGCCAGAAAAGATCTTGTAGTAAACTACTCAAGAGGCTGAGGCAGGAGGATCGCTTGAGCCCAGGAA
TTCAAGACCTGCCTGGGCAACAGAGCAAGACCCTGTCTCTAGGGAAGATATCCTACCGTAGCCTCCCTCGGGGAC
TCCCATTCCTCCCACCTCAGGGCCAGTCAAGGGAACAGGCCTCTGCTCTGGGCAGAAGTGCCGGCAGCCGCTCTC
TGAAAAGCTAGGTGTTGCCTCAGGGGCTCCCGGTGTCTGTGGAAAATGCCTGGCCACGGTTTCCATGGTTCCCA
GGCTCCAACCCCTGCAGTTCTCGGCCCTCATTAGGAGGGGCTCGGCAGGGTGGGGGGTGCCGTCTTCCCTTGC
CGGAGCCCCAAGGACTCTGCCGGCTCCCTCGCTTTGGCAGCAGCACTGCCACCCTGTCTCTGGAGGTTCCCCCG
CCTCAATCCACCCAGCTACCCCGAAAGGCACAATCATAGGCCCTTCTCGTCTTTTAAGGGTTTTTACTTCCATG
GGAACTATGTGTTGGATGAGAAAAGTACCCGGGGAAGGCGACAGAGGTTGAGAAAGCTCTGCGAGTCTTGACG
CTGGTCTGCCTTCTTGGCTCACCTTGAAGGTGGACGCTGGCCCCACACATCCCTCTTAAAGACGCAGGCCGAT
AGCCAGCAGATCCTGGGGCTTGCTGGCCCCAAGTGAGTTGTGAGGGTTTTCAGAGGACGCCAGTCATGGCAACCCC
AGCTCCATGGCTGCCACACAGGCCTGGGCTTCCCAGGACTGCCTCCTTCTTGTTCGCTTATGTAGATGAAAAATG
AGGTAACGGCACTCCCTGCCCCACCTCCTCCCAGAAGTGCCAGGGTGTAAATGCAATAGCTTGTGTGAAGTC
CACTGGAACCCAGGCTCACCAAGTCAGTCTTAACCAACACAGGCCCCAGCACCCGCAGAGCAGACACTGCGATGA
CAACGGACGACACAGAAGTGCCCGCTATGACTCTAGCACCGGGCCACGCCGCTCTGGAAACTCAAACGCTGAGCG
CTGAGACCTCTTCTAGGGCCTCAACCCAGCCGGCCCCATTCCAGAAGCAGAGACCAGGGGAGCCAAGAGAATTT
CCCCTGCAAGAGAGACCAGGAGTTTCAAAAAACATCTCCCAACTTCATGGTGCTGATCGCCACCTCCGTGGAGA
CATCAGCCGCCAGTGGCAGCCCCGAGGGAGCTGGAATGACCACAGTTTCAGACCATCACAGGCAGTGATCCCGAGG
AAGCCATCTTTGACACCCCTTTGCACCGATGACAGCTCTGAAGAGGCAAAGACACTCACAATGGACATATTGACAT
TGGCTCACACCTCCACAGAAGCTAAGGGCCTGTCTCAGAGAGCAGTGCCTCTTCCGACGGCCCCCATCCAGTCA
TCACCCCGTACGGGCCTCAGAGAGCAGCGCCTCTTCCGACGGCCCCCATCCAGTCATACCCCGTACAGGGCCT
CAGAGAGCAGCGCCTCTTCCGACGGCCCCCATCCAGTCATACCCCGTACGGGCCTCAGAGAGCAGCGCCTCTT
CCGACGGCCCCCATCCAGTCATACCCCGTACGGGCCTCAGAGAGCAGTGCCTCTTCCGACGGCCCCCATCCAG
TCATACCCCGTACGGGCCTCAGAGAGCAGCGCCTCTTCCGACGGCCCCCATCCAGTCATACCCCGTACGGT
CCCCGGGATCTGATGTCACTCTCCTCGCTGAAGCCCCCTGGTGACTGTACAAACATCGAGGTTATTAATTGCAGC
ATCACAGAAATAGAAACAACAATTTCCAGCATCCCTGGGGCCTCAGACATAGATCTCATCCCCACGGAAGGGGTG
AAGGCCTCGTCCACCTCCGATCCACCAGCTCTGCCTGACTCCACTGAAGCAAAACCACACATCACTGAGGTCA
GCCTCTGCCGAGACCTGTCCACAGCCGGCACCAACAGAGTCAGCTGCACCTCATGCCACGGTTGGGACCCCACTC
CCCACTAACAGCGCCACAGAAAGAGAAGTGACAGCACCCGGGGCCACGACCCTCAGTGGAGCTCTGGTCACAGTT
AGCAGGAATCCCTGGAAGAAACCTCAGCCCTCTCTGTTGAGACACCAAGTTACGTCAAAGTCTCAGGAGCAGCT
CCGGTCTCCATAGAGGCTGGGTGAGAGTGGGCAAAACAATTTCTTTGCTGGGAGCTCTGCTTCTCTCTACAGC
CCCTCGGAAGCCGCCCTCAAGAACTTACCCCTTTCAGAGACACCGACCATGGACATCGCAACCAAGGGGCCCTTC
CCCACCAGCAGGGACCTCTTCTTCTGTCCCTCCGACTACAACCAACAGCAGCCGAGGGACGAACAGCACCTTA
GCCAAGATCACAACCTCAGCGAAGACCAGATGAAGCCCCATCTCTACTAAAAATACAAAAATTAGCTGGGTGTG
GTGGCATGCACCTGTAGTCCCAGCTACTCGGGAGGTTGAGGCAGGAGAATCACTTGCACCAGGGAGGTGGAGGTT
GCAGTGAGCCGAGATTGCGCCACTGCACTCCAGCCTGGGCAACAGAGCAAG

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FIGURE 1344

CTTTTGAGCAGGAGTCCGGGCCCTCGTGTACCGCTCTGAAGTCAAGGAGAGGCTGGGAGGCGGCAGAATGCAGC
CAGAGGAGGGCACAGGCTGGCTGCTGGAGCTGCTGTCCGAGGTGCAGCTGCAACAGTACTTCCTGCGGCTCCGAG
ATGACCTCAACGTACCCGCCTGTCCCACTTTGAGTACGTCAAGAATGAGGACCTGGAGAAGATCGGCATGGGTC
GGCCTGGCCAGCGGCGGCTGTGGGAGGCTGTGAAGAGGAGGAAGGCCTTGTGCAAACGCAAGTCGTGGATGAGTA
AGGTGTTCAGTGGAAAGCGACTGGAGGCTGAGTTCCACCTCATCACTCTCAGAGCACCTTCCGGAAGACCTCGC
CCGCCCCTGGGGGCCAGCAGGGGAGGGGCCCTGCAGAGCCTCACCTGCCTCATTGGGGAGAAGGACCTGCGCC
TCCTGGAGAAGCTGGGTGATGGTTCCCTTTGGCGTGGTGCAGGGGCGAGTGGGACGCGCCCTCAGGGAAGACGG
TGAGTGTGGCTGTGAAGTGCCTGAAGCCCGATGTCTGAGCCAGCCAGAAGCCATGGACGACTTCATCCGGGAGG
TCAATGCCATGCACTCGCTCGACCACCGAAACCTCATCCGCCTCTACGGGGTGGTGCTCACGCCGCCCATGAAGA
TGGCATCAGTTTCCCAAATTGCCTCGAGGGAGAGGCCTGAGAACTGCAGGACTCCTAGAGGTCCCCAGACAGCA
GGCCAGGAAGGTGACAGAGCTGGCACCTCTGGGATCGTTGTTGGACCGGCTACGTAAGCACCAGGGCCACTTCCT
CCTGGGGACTCTGAGCCGCTACGCTGTGCAGGTGGCTGAGGGCATGGGCTACCTGGAGTCCAAGCGCTTTATTCA
CCGTGACCTGGCTGCCC GCAATCTGCTGTTGGCTACCCGCGACCTGGTCAAGATCGGGGACTTTGGGCTGATGCG
AGCACTACCTCAGAATGACGACCATTACGTCATGCAGGAACATCGCAAGGTGCCCTTCGCCTGGTGTGCCCCGA
GAGCCTGAAGACACGCACCTTCTCCCATGCCAGCGAC

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FIGURE 1345

TGTCCTTCAGTGAAATGATACCGGTCCCCACTGCCCAGCTCACCTCCCGGGGCTGCAGGAGGCACCGGAGATAATG
GCTGTAGAGGGTCTTGTAACCTGAACATTGCTTGCAAACATAAGGAATTCTAGTTACTGGGAGGAAGCACAGGGC
AGAGGCCAGAAGAGGCCCTCAGATTTGAGGCACCTAGCCCAGACGGATAAGGATCCACCAGCTCTGGGGGCGTG
AGACCCAAGCTGGCAAGAATCTGCAATCTGGAGCCAAGGCTGTGGGTGCCTCAGTGGAGGCCGAGTCAGACCGAC
GTGGCCAGCTTTGACCCTCATGGCCTCCTTTCTTCTGTCCCTTGACCTTCGGCTCCTCCCTGTCCACCCTGGCCT
CCGAGTCTCCTCCACTTTTCCTTCCGTCTCAGCCCTCAGCTCTAGGCGCCCCCTCCAGAGACCCAGCTGTCTTCCC
AGGCCCCCTTCCCAGCAAGGACTAGCTTCATCTGAACCACACACACTCACGGTTCAACCTCAGACTAAAATTAT
CCTCTCCCCTGGGCAGGATGAAGGGCAGCCGACTCCCTGGTGAGGGTGGAGACAGACAGCACCAAATGGTCAGGC
CAGAGAAGGGGCCAGGGCTAAAAATGGACAAGGAGGTGTCTGTGGAGGGCCCCCTGCGGCTCCATCGATCGGGGTT
AGGGCTGGAGTCTGCGGGGTGGCGGGTGCAGGAAGGGAGGGTGGGGCAGGACTGGGAGGAGACTCCGACCTTGGC
TGGGCGGTGCCCTCCCTCTCCACACAGCTGGGTGTGGGGCCGCTCAGCCACAGGCTGCATGCCTGTGCGGTCTCTT
TCTGGCACCCCTCCTTGAGGCCAGCATCAGGCTTTGGGTTCATGTTTGGGGGTGTGCCCTGGACGGAGTGTGGGCC
TCCAGCCAGGCTGCCCCACTGACAGTTTGGCAAAAACAGGACCTATCTGGAAGCCGAAGCCGGGGATCACCAGGT
GGACCCAGCGGGGTGGGACTGAGTGACTGACCCCTGGGGTGTGGATTCCATCTGGCCCCCGGCTGCCTTCAAACA
GGTGTTCAGTGGAAAGCGACTGGAGGCTGAGTTCCACCTCATCACTCTCAGAGCACCTTCCGGAAGACCTCGCC
CGCCCCCTGGGGGCCAGCAGGGGAGGGGCCCCCTGCAGAGCCTCACCTGCCTCATTGGGGAGAAGGACCTGCGCCT
CCTGGAGAAGCTGGGTGATGGTTCCCTTTGGCGTGGTGCGCAGGGGCGAGTGGGACGCGCCCTCAGGGAAGACGGT
GAGCTCTCTGTGTCTGCGCAGCGCAGCAGAGGCATGGGACCCGGGGCTGGTAGTGGCTCTTCTGCCCCCAACCAG
GGTGTGGATGGGACTGGGGATGCGTCAAGTGTGGCTCATCCCAGAGTCCGTGCTCAGGATTTTTGGGGTTTTAT
TTATTTATTTATTTTGGAGATGGAGTCTCGCTCTGTGCGCCAGGCTGGAGTGCAGTAGGCACGATCTCGGCTTCC
TGCAACCTCCACTTTCCGGGTTCAAGCAATCCTCCTGCCTCAGCCTCCTGAGTAGCTGGGATTACAGGCATGCAC
CACCACACTCAGTTAATTTTTGTATTTTTAGTAGAGACGGGGTTTACCATGTTGGCCAGGCTGGTCTCGAACTC
CTGACCTCAGATGATCTGCCCACCTTAGCCTCCCAAAGTGCTTGGATTACAGGTGTGAGCCACCACGTCCAGCCC
ATGCTCAGGTTTAACTAAGCACATTTATTATTTCAACTATAAAAATAATTTATTATAAAAGTTTGGAAAGTATTT
G

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FIGURE 1346

MRVRAGVCGVAGAGREGGAGLGSDSLGWAVPSLSTQLGVGPLSHRLHACRSLSGTLLEASIRLWVHVWGCALDG
VWASSQAAPLTVWQNQDLSGSRSRGSPGGPSGVGLSD

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FIGURE 1347

CATCCTCCCAGAGAAGGGGCCCCGAATCGCCGAAGGGCACTGCTTCGCCGATTTAAAAAACAAAGCAAAAAGCCCC
GCATCTGCATCAGGAAGGCGCCTCTGCCTACTCTGGGAGAGAGAAGGGCACCCTCCCCCTTGCTACGTAGTCGT
CTGCGGAGGCACAACCGTGGAACGGGAGCCGCCACCACCACCACCGCTCAAACCTCTCGGCACTGGCTGGGGTA
CAGGGAGCGGCTGCGAGCGAATGGGATAAGCGAGCCTCCAGTTCCCCGCTCTCCAGAGCAAGTGGCTTCAGTGAT
ATCCAAGCGCCCTTCCAGCACCCATTCCCTGCCTCGCCAGCAGGCACCGGGGCCCCACTTGGCGTTTGCGGATT
CAGCTGAATGGGAGGCGACACAATGAGACAAGAGCAAACCGTTTCTCAGCGTTCTTGCCCAGGGCCTTCCCGTCT
CGCGGCCCCGGCTCCCTCACCCGGAAGTGCTGGTCCCGGTACTGGCTCAGCTCCACGTAGGAGTCGCTGCGCAGC
GCCTTCAGGAGGCCACCCGACATAGTGCAGAGAAGCGGACCACAATGCGGCGACTCCCGGCACGAGGCTGCGTCC
GCGATGGCGGAAGCGGAAACGCGCGGAGGCGAGCATCTCATTGGACCCAATCCGAGGGCGGCAGTGTCTCATCA
AGCTGCGCGGGGGCATAGACGTCCGGGTGCGGCGCCGCGGGGCGGAAGACGAGGGCGGCGAGGTCGGGTTCGGG
CGCTTGAGAGAAGATGGTGCTGCGGCGGCTGCTGGCCGCCCTGCTGCACAGCCCGCAGCTGGTGGAACGTCTGTCA
GAGTCGCGGCCCTATCCGACGTGCGGCGCAGCTCACGGCCTTCGCACTGCTGCAGGCCAGCTGCGGGGCCAGGAC
GCGGCCCCGCCCTGCAGGACCTCGCGGCTGGGCCCCGTGGGCTCCCTGTGCCGCCGCGCTGAGCGATTTAGAGAC
GCCTTCACCCAGGAGCTACGCCGCGGCCTCCGAGGCCGCTCGGGGCCACCACCAGGTAGCCAGAGGGGCCCTGGC
GCAAACATTTAATCCTGGGCTGTGCGGGGCCGAGGCTGCTTGCTTTTCCCTCCGGGCTCTACAGTGGCATCAATG
TGGAGGGGTCATTCCGGCACTGCGCGCGGCTTCGAATCCCGACTGGGATTGTTGGCCTGCAGACATCCCACGCA
TAAGAGCCTAGGCCAGACCGCCCGCTCCGTTGAAGTCTTGTGATTGGACAAGACACAGTGTGGAGAAAGACCCCT
AAGCCTAACAGAGATGAAGGTAGGCTGGGTCCAGACACGGCACCTACGGAGAGCCACGGACCGAAGCCAGAGAGC
CTTTCCTCTGCAAGTGGGACTGAAACTCTTGACAGATGCTGCTCAATCTGACTGGTATAGCAGGACAGTTAATTC
CAGGGACGATATGGATGAAAAGACAACCTACAGCTGCCAAATTCCTTTGATTAAATGTGTGAGCTGGTTGATAG
GCATGAGTGTGATACTTCTCAGGCAAGATGTGTTAAGAATACCGGGGACTGTAGGCCTATGGTAATAATAAACAC
GTATTTTATGAAATGA

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FIGURE 1348

CCGGCTGCTGCGGACCTCCTCGGACCCGGACCCAGCCCCAGCCCGGCCCCAGCCAGCCCCGACGGCGCC**ATG**CGG
GGTCCGAGCGGGGCTCTGTGGCTGCTCCTGGCTCTGCGCACCGTGCTCGGTGGCATGGAGGTGCGGTGGTGCGCC
ACCTCGGACCCAGAGCAGCACAAAGTGCGGCAACATGAGCGAGGCCTTCCGGGAAGCGGGCATCCAGCCCTCCCTC
CTCTGCGTCCGGGGCACCTCCGCCGACCACTGCGTCCAGCTCATCGCGGCCAGGAGGCTGACGCCATCACTCTG
GATGGAGGAGCCATCTATGAGGCGGGAAAGGAGCACGGCCTGAAGCCGGTGGTGGGCGAAGTGTACGATCAAGAG
GTCGGTACCTCCTATTACGCCGTGGCTGTGGTCAGGAGGAGCTCCCATGTGACCATTGACACCCTGAAAGGCGTG
AAGTCCTGCCACACGGGCATCAATCGCACAGTGGGCTGGAACGTGCCCGTGGGCTACCTGGTGGAGAGCGGCCGC
CTCTCGGTGATGGGCTGCGATGTACTCAAAGCTGTCAGCGACTATTTTGGGGGCAGCTGCGTCCCGGGGGCAGGA
GAGACCAGTTACTCTGAGTCCCTCTGTGCGCTCTGCAGGGGTGACAGCTCTGGGGAAGGGGTGTGTGACAAGAGC
CCCCTGGAGAGATACTACGACTACAGCGGGGCCCTCCGGTGCCCTGGCGGAAGGGGCAGGGGACGTGGCTTTTGTG
AAGCACAGCACGGTACTGGAGAACACGGATGAAAGTCCATCACGAAGGCAAACATGGACCAGATCTGAGGAGGAA
GAAGGCGAGTGCCCTGCACACGAGGAAGCACGTAGGACGATGCGCTCTAGTGCTGGGCAAGCCTGGAAATGGGCT
CCCGTTCACAGGCCCCAGGACGAGTCTGACAAAGGAGAATTTGGAAAACGGGCAAAGAGTAGGGATATGTTGGGT
TAAGAAATCAGCTCTTTCAAACCTGGGGTTTTTTTTTGGGATGGGGGTCTCACCATGTTGCCAGGCTGGTCTCAA
CCCCAGCCTCAACTGATCCTCGCATCTCAGCCTCCTGAGTAGCTGGGATGACAGGCGTGACCTGGCAGCTTTT
TCAAAGTGTTGATGGTAATCTGAGGCAATCTAAGGGAGTCATTTTTTAAGTGACTTTATACAGAAAGATTGGTAA
GAGCCAAGGGGTAGAAGTGGCATAAATGTCTAAAGCAGGGAAGTGACAGGACTTTCATTGTTCTTGGCTGAGGAG
AAGCGGGAGTGGCTGATGGAAGCACCTAAATGATGCCTTTGTCTGTGGGAAGGCAAATGATGCCCCAGAGCTCTA
ACCAAAGGTTTTTGAGCCGCCGAAAAACAGGAAAGTTGGGAAGCGGGGGTAGGACTACACTGAATCATTAACAGT
GCTGTAAACTACCATGTGGCCATTAAACAATGACCTTTAGGGAGTTTTCTAAACGATCACTCTGGTGCGGGTGTT
TGGTTTTGTTTTAAATAGCTTTGCAGTGAAAGCTTTCATGACCATACAAATTATCTTTTTTCTTCTTCTTCTTCT
TGTAAGAGTTTTTTTTCTCCTTGCTTAAGGTCATAAAAAATATTGTTATGTGGGAAAAAAAAAAAAAAAAAAAAA

A

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FIGURE 1349

MRGPS GALWLLLALRTVLGGMEVRWCATSDPEQHKCGNMSEAFREAGIQPSLLCVRGTSADHCVQLIAAQEADAI
TLDGGAIYEAGKEHGLKPVVGEVYDQEVGTSYYAVAVVRRSSHVTIDTLKGVKSCHTGINRTVGWNVPVGYLVES
GRLSVMGCDVLKAVSDYFGGSCVPGAGETSYSESLCRLCRGDSSGEGVCDKSPLEYYDYSGAFRCLAEGAGDVA
FVKHSTVLENTDESPSRRQTWTRSEEEEGECPAHEEARRTMRSSAGQAWKWAPVHRPQDESDKGEFGKRAKSRDM
LG

1453/6881
FIGURE 1350

GGGCGCCGCGGGGCGGAAGACGAGGGCGGCGAGGTCGGGTTCGGGGCGCTTGGAGAAGATGGTGCTGCGGCGGCT
GCTGGCCGCCCTGCTGCACAGCCCGCAGCTGGTGGAACGTCTGTCAGAGTCGCGGCCTATCCGACGTGCGGCGCA
GCTCACGGCCTTCGCACTGCTGCAGGCCCAGCTGCGGGGCCAGGACGCGGCCCGCCGCTGCAGGACCTCGCGGC
TGGGCCCCGTGGGCTCCCTGTGCCGCCGCGCTGAGCGATTTAGAGACGCCTTCACCCAGGAGCTACGCCGCGGCCT
CCGAGGCCGCTCGGGGCCACCACCAGGTAGCCAGAGGGGCCCTGGCGCAAACATTTAATCCTGGGCTGTGCGGGG
CCGAGGCCGCTTGCTTTTCCTTCGGGGCTCTACAGTGGCATCAATGTGGAGGGGTCATTCCGGGCACTGCGCGCG
GCTTCGAATCCCGACTGGGATTGTTGGCCTGCAGACATCCACGCATAAGAGCCTAGGCCAGACCGCCCGCTCCG
TTGAAGTCTTGTGATTGGACAAGACACAGTGTGGAGACAGCCCTAAGCCTAACAGAGATGAAGGTAGGCTGGGTC
CAGACACGGCACCTACGGAGAGCCACGGACCGAAGCCAGAGAGCCTTTCTCTGCAAGTGGGACTGAACTCTTG
ACAGATGCTGCTCAATCTGACTGGTATAGCAGGACAGTTAATTCCAGGGACGATATGGATGAAAAGACAACCCTA
CAGCTGCCAAATTCCTTTGATTAAATGTGTGAGCTGGTTGATAGGCATGAGTGTGATACTTCTCAGGCAAGATGT
GTTAAGAATACCGGGGACTGTAGGCCTATGGTAATAATAAACACGTATTTTATGAAATGA

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FIGURE 1351

MVLRRLLAALLHSPQLVERLSESRPIRRAAQLTAFALLQAQLRGQDAARRLQDLAAGPVGSLCRRRAERFRDAFTQ
ELRRGLRGRSGPPPGSQRGPGANI

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FIGURE 1352

ATGCCTGTCTTCATCTTGAAAGAAAAGCTCCAGGTCCCTTCTCCAGCCACCCAGCCCCAAGATGGTGATGCTGCT
GCTGCTGCTTTCCGCACTGGCTGGCCTCTTCGGTGCGGCAGAGGGACAAGCATTTCATCTTGGAAGTGCCCCAA
TCCTCCGGTGCAGGAGAATTTTGACGTGAATAAGTATCTCGGAAGATGGTACGAAATTGAGAAGATCCCAACAAC
CTTTGAGAATGGACGCTGCATCCAGGCCAACTACTCACTAATGGAAAAACGGAAGATCAAAGTGTTAAACCAGGA
GTTGAGAGCTGATGGAACGTGAATCAAATCGAAGGTGAAGCCACCCAGTTAACCTCACAGAGCCTGCCAAGCT
GGAAGTTAAGTTTTCTGGTTTATGCCATCGGCACCGTACTGGATCCTGGCCACCGACTATGAGAACTATGCCCT
CGTGTATTCCTGTACCTGCATCATCCAACTTTTTCACGTGGATTTTGCTTGGATCTTGGCAAGAAACCCTAATCT
CCCTCCAGAAACAGTGGACTCTCTAAAAAATATCCTGACTTCTAATAACATTGATGTCAAGAAAATGACGGTCAC
AGACCAGGTGAAGTGGCCCAAGCTCTCGTAAACAGGTTCTACAGGGAGGCTGCACCCACTCCATGTTACTTCTGC
TTCGCTTTCCCCTACCCACCCCCCCCCATAAAGACAAACCAATCAACCACGACAAAGGAAGTTGACCTAAACAT
GTAACCATGCCCTACCCTGTTACCTTGCTAGCTGCAAAATAAACTTGTTGCTGACCTGC

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FIGURE 1353

MVMLLLLLSALAGLFGAAEGQAFHLGKCPNPPVQENFDVNKYLGRWYEIEKIPTTFENGRCIQANYSLMENGKIK
VLNQELRADGTVNQIEGEATPVNLTEPAKLEVKFSWFMP S APYWILATDYENYALVYSCTCIIQLFHVDFAWILA
RNP NLPPETVDSLKNILTSNNIDVKKMTVTDQVNC PKLS

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FIGURE 1354

GC GCGAGTGGGAGGTGGCAGGCCTGCGACTCCGGCCTTGTCGCGCCCCGCTCTCGGCGCGACGTCTCCAGCCATG
AACCGGTTTGGTACCCGGTTGGTGGGAGCCACGGCGACTTCTTCGCCGCCGCCGAAGGCCCGCAGCAATGAAAAAC
CTCGACAAAATAGATATGTCTTTGGATGATATCATCAAGTTGAATCGAAAGGAAGGGAAGAAGCAGAAATTTTCCA
AGACTAAATAGAAGACTCCTCCAGCAAAGTGGTGCCAGCAATTCAGGATGAGAGTGCGATGGGGAATCCAACAG
AATTCTGGTTTTTGGTAAGACTAGTCTGAATCATAGAGGAAGAGTAATGCCTGGAAAGAGACGTCTTAATGGAGTT
ATCACTGGCCTTGCGAGCTAGGAAAACGACTGGAATTCGAAAAGGAATTAGTCCTATGAATCGTCCACCTCTAAGT
GACAAGAATATAGAACAATATTTTCCAGTGTTAAAAAGGAAGGCCAAACCTTCTGAGACAAAATGAAGGGCAGAGG
AAACCAGTAGCAGTTCTCAAGAGACCTAGCCAGCTAAGCAGAAAAATAACATTCCAGCTAATTTTACCAGGAGT
GGAAATAAATTAATCATCAGAAAGATACTCGTCAGGCAACTTTTCTTTTCAGAAGAGGCCTGAAGGTGCAGGCC
CAGTTGAATACAGAACAACCTGCTAGACGATGTAGTAGCAAGAGAACTCGTCAATGGCGGACTTCCACCACAAAT
GGAGGGATTTTGACTGTATCTATTGACAATCCTGGAGCAGTGCAATGCCAGTAACTCAGAAACCACGATTAATCT
CGTACTGCTGTACCTTCATTTTAAACAAAGCGGGAGCAAAGTGACGTCAAGAAAGTTTCTAAAGGTGTTCCCTTG
CAGTTTGACATAAACAGTGTGCGAAAACAGACAGGGATGACGTTGAATGAGCGGTTTGGGATCCTGAAGGAACAA
AGAGCCACTCTCACATACAACAAAGGGGGAAGCCGCTTTGTCAACCGTGGGATAGGTTCCCATGTCAAAGGAACCTT
TGAGTGATGACTCTGAGAAGTTGAATTGCTTGAAGAGTTCATCACGGAAATTCAGAAACTTTACTTCAAATAT
TCACAAGGCTAAATAACTCTTATTTTATTTTGAAGGTTTTTTTTTTTAAAAAAGAGTATAAAATAATG
CCCTGAAAGAATAATAGGGATTATACCTGTCTGTTCTTAAAGATTTTCATGGTTGGCTCAGACAGAACAATCATCT
GTTTGACTTCTTTGGTTCTCATGCAGCAGAAGGAAGACAGAAGGATAGAAATTGATTATTTTATGATAGCGGT
ATTCAGGATCTCATCACCTTTGCCCGTGTTTTAGACTTTGTCTAGGTAAATCCTGGTCTTCATAACATGAGTAG
GTCCCTTGGTTGCTGTCACTTGCCCTTTAATAGTGTTGATGTAGTCAGTGCCGTTGCCTTTTCTTCATTAGAGAC
ACAGAACAATGTATTAGAATTTCCAGCTGTGGGTTTGAAGACTTAGGGGGACATCCAGAACGTGCTTCTCTTTC
AGACGGTGTAAGTCCCCTGGAATTACACAGCTTTAGTGCTGAGCTTTTAAACAGGAAATGTGGCCCTAGGTATTA
GTCTTAGTTTAAATGTTGGTGTTTAGAGACTGTAAATGCATATTCACAAAGTTATCTGATAGGGCCTTGGAGGA
GAAGGTCCAGTTTTAAAAATGACAGTTTGTGTTTAAATAATGAAGGCATGAGAGGAAGTAAGTAGCAAGTTGAA
GGACAGGTAGTTGAGATGAAACACTTCAAACCCCTGGTTATAGATGTACTGTTTGGATGTAGCATAGTCTTGAGT
CTAGCGTCCACAAAGAATTATTCAAATGATATTTAGAAGAATTATAACTATTACATTGAATGGAGTCCCTTGGAT
ATTTTGATAGTAAATTAATAGCCATAAAGTCTAGACTTCTTATTTGAAGTTAAATTTCTTATTTGAAAAGTT
GAAATTTATGAGCTTTGAAGATTGCTAAATTAATAATTTATAGCTCCAAAAACAAAATATACTTGTATATGTC
ACAGAGAAAAAAATGCAAAATTTATAATAGAGTTACATTAACCTTGTTGTTTACCTTTACTGATTTCTTATAT
GGTATAAATTAAGTTTCAAGCATTTATGGGGAGAAAAGGCCCTCCCCACCGACCCGCCACCTGCCACCTCTGACG
GAGTGGGAGAAGTTAGTCTGTGCTAAGATAGTACTGAGTCCCAGATGTTGTATACTGTAAATTACAGTATAATG
CCAAATGCAGCAAAATCTTCCAGCTGTACGTTACAAGTTTGGTCATTTTGAAGCTTGACATTTTAGTTTGCCATT
ATGTTAAAAACATCTAAATAGGTGTTAGTTTCTCAGGAGTAGATTGTTAGTGTTGACTTTTCTGTAAAGCAGAC
ATCGTTCTTGGCCTGCCCTGCATTGTATACTAGATTTTATTGTTGTCTCTCATGCTTCTTGAGTTGCTTCATGGT
TTATGCTCGCCATGGAAGCTATCAGTAACAGTTTCATGCTTATACCAAAGAATTAAATCTGATCTTTAATATCT
GATATTTTCTGTTACTCGTACTGATAAGGGATTATTGGAAGTCAGTCACAGAATTGGAATAAATCTAGTCT
CTCCTTAGCTATTTGATGCTTTTCATATAGGCCAAGAACTCATTGCAAAACATTTTGAAGGATGAATGCCGTG
ATTTGGTCTAGGAACAGTACATTTTAGTCTGATTTAGAATTACTGGTAGCTTATTTTAAAGCAAGGAAAAGCAGC
TGAGCTCAAGTTTGCTGTCTTTAGAATGGTTTGTGAAAATATGGTATAAAGGTGTTTTTCAATTTCTGTTCTTAC
CTATTATTGTATAGAGCTATTCATGCCATTTTGGGAAAACCTTTAAAAATTGCCCAAATACTGACATTGAGTG
CATTAAATAACAAATTATCTTTGATACATTAACTTTTATCTTCATGCATCTGTAATTTAATTTAAGTATAAT
GTTTTGCCTTTGGTACAATAAATAAATCTTGGTGGTCACATATTGTATATAAACAACAATATGCTTTGT
TGAAGGAAAATTTCTTTATTGGAATGTGGTTGTAATCCTTGTTTCAAGTTCTTAAAGTTTCGGTTTTTTTTTAAAC
AGGATGCAACTTAACTTTTCTTTGCATCAAGGTATATGCAAAACATTGGTGCCGTGCATCACCAAATGAAAGTT
TGATTTAACGAGGAGGTGCTTTACACTGTACTTTTTGGTGTTTTTTGGAAAAGTTACATTTAGATCTATTCTGA
AGCTGTTTCAATTTTAAACAAATAAATGTTACAGGTTTCACATGATTTATTCTCAGCTCTAAAAA

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FIGURE 1355

MNRFGTRLVGATATSSPPPKARSNENLDKIDMSLDDI IKLNRKEGKKQNFPRLNRRLLQQSGAQQFRMRVRWGIQ
QNSGFGKTSLNHRGRVMPGKRRPNGVITGLAARKTTGIRKGISPMNRPPLSDKNIEQYFPVLKRKANLLRQNEGQ
RKPVAVLKRPSQLSRKNNIPANFTRSGNKLNHQKDTRQATFLFRRGLKVQAQLNTEQLLDDVVAKRTRQWRTSTT
NGGILTVSIDNPGAVQCPVTQKPRLTRTAVPSFLTREKQSDVKKVPGVPLQFDINSVGKQTGMTLNERFGILKE
QRATLTYNKGGSRFVTVG

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FIGURE 1356

AATCAAGAGGTTCCAATCTTCGTGTTCACTTTAAGAACACTCGTGGAAGTCTCAGGCCACCAAGGGTATGCATA
TACGAAAAGCCACGAAGTATCTGAAAGATGTCACTTTACAGAAACAGCGTGTACCATTCCGACGTTACAATGATG
GAGTTGGCAGGTGTGCGCAGGCCAAGCAGTGGGGCTGGACACAAGGTCGGTGGCCCAGAAAGAGTGCTGAATTCT
CTGGTCATTGAGCATATCCAAGTGAACAAAGCACCTGAGATGTGCCGCCGACCTACAGAGCTCATGGTCGGATT
AACCCTACATGAGCTCTCCCTGCCACATTGAGATGATCCTTATGGAAAAGGAACAGATTGTTCTAAACCAGAA
GAGGAGGTTGCCCAGAAGAAAAAGATATCCCAGAAGAACTGAAGAAACAAAACTTACGGCACGGGAGTAAATT
CAGCATTAAATAAATGTAATTAAAAGG

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FIGURE 1357

MSLYRNSAYHSDVTMVELASVRRPSSGAGHKVGGPKRVLNSLVIEYIQVNKAPKMLRRTYRAHGRINSYMSSPWH
IEMILTEKEQIVPKPEKEVAQKKKISQKKLKKQKL MARK

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FIGURE 1358

TGTAGATTAGCTGTGAATATCTTGACTCCTTTAAGGTAATAAGGCTTTTGTTTGTTTTATCTTTCACAGCTAGA
AAATTATGGCATGCCGTTTAGCAGAACTGAAGATGGGAAGATTTATCAGCGTGCATTTGGTGGACAGAGCCTCAA
GTTTGGAAGGGCAGGCAGGCCCATCGGTGCTGCTGTGTGGCTGATCGGACCGGCCACTCAATATTGCACACCTC
ATATGGGAGGTCTCTGAGATATGATAACCAGCTGTTTTGTGGAGTATTTTGCCTTGGATCTCCTGATAGAGAACAG
GGAGTGCCGTGGTGTCAATTGCACTGTGCATAGAGGACGGGTCCATCCATCACATAAGAGCAAAGAACACTGTTGT
TGCCACAGGGTAGG

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FIGURE 1359

TTTCCGTGCTACCTGCAGAGGGATCCATACGGCGTTGTTCTGGATTCCCGTCATAACTTAAAGGGAACTTTTAC
AATGTCCGGAGCCCTTGATGTCCTGCAGATGAAGGAGGAGGATGTCCTTAAGTTCCTTGCAGCAGGAACCCACTT
AGGTAGCACCAATCTTGACTTCCAGATGGAACAGTACATCTATAAAAGGAAAAGTGATGGCGTCTATATCATAAA
TCTGAAGAGGACCTGGGAGAAGCTTCTGCTGGCAGCTTGTGCTGTTGTTGCCATTGAAAACCCTGCTCATGTCAG
TGTTAAATCCTCCAGGAATACTGGCCAGAGGGCTGTGCTGAAGTTTGCTGCTGCCACTGGAGCCACTCCAATTGC
TGGCCGCTTCACTCCTGGAACCTTCACTAACGAGATCCAGGCAGCCTTCTGGGAGCCACGGCTTCTTGTGGTTAC
TGATCCCAGGGCTGACCACCAGCCTCTCACAGAGGCATCTTAAGTTAACCTACCTACCATTGCTCTGTGTAAACAC
AGATTCTCCTCTGTGCTGTGTGGACATTGCCATCCCATGCAACAGCAAGGGAGCTCACTCAGTGGGTTTGATGTG
GTGGATGCTGGCTTGGGAAGTTCTGCGCATGCATGGCACCATTTCCCGTGAACACCCATGGGAGGTCATGCCTGA
TCTCTACTTCTACAGAGATCCTGGAGAGATTGAAAAAGAAGAGTAGGCTGCTGCTGAAAAGGCAGTGACCGAGGA
GGAATTTCAAGGTGAATGGACTGCTCCAGCTCCTGAGTTCACTGCTACTCAGCCTGAGGTTGCAGACTGGTCTGA
AGGTGTGCAGGTGCCCTCTGTGCCTATTACAGCAGTTCCCTACTGAAGACTGGAGCGCTCAGCCTGCCATAGAAGA
CTGGTCTGCAGCTCCCACTGCTCAGGCCACTGAATGTGTAGGAGCAACCACTGAATGGTCTTAAGCTGTTCTTGC
ATAGGCTCTTAAGCAACATGGAAAAATGGTTAATGGAAAATAAACATCAGTTTCT

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FIGURE 1360

GGGAAACTTTTACAATGTCCGGAGCCCTTGATGTCCTGCAGATGAAGGAGGAGGATGTCCTTAAGTTCCTTGCAG
CAGGAACCCACTTAGGTAGCACCAATCTTGACTTCCAGATGGAACAGTACATCTATAAAAGGAAAAGTGATGGCG
TCTATATCATAAATCTGAAGAGGACCTGGGAGAAGCTTCTGCTGGCAGCTTGTGCTGTTGTTGCCATTGAAAACC
CTGCTCATGTCAGTGTTAAATCCTCCAGGAATACTGGCCAGAGGGCTGTGCTGAAGTTTGCTGCTGCCACTGGAG
CCACTCCAATTGCTGGCCGCTTCACTCCTGGAACCTTCACTAACGAGATCCAGGCATCTTAAGTTAACCTACCTA
CCATTGCTCTGTGTAAACACAGATTCTCCTCTGTGCTGTGTGGACATTGCCATCCCATGCAACAGCAAGGGAGCTC
ACTCAGTGGGTTTGATGTGGTGGATGCTGGCTTGGGAAGTTCTGCGCATGCATGGCACCATTTCCTCGTGAACACC
CATGGGAGGTCATGCCTGATCTCTACTTCTACAGAGATCCTGGAGAGATTGAAAAAGAAGAGTAGGCTGCTGCTG
A

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FIGURE 1361

ATCTGCAGTGGAGCCGCCACCAAAATGCAGATTTTCGTGAAAACCCCTTACGGGGAAGACCATCACCCCTCGAGGTT
GAACCCCTCGGATACGATAGAAAATGTAAAGGCCAAGATCCAGGGTAAGGAAGGAATTCCTCCTGATCAGCAGAGA
CTGATCTTTGCTGGCAAGCAGCTGGAAGATGGACGTACTTTGTCTGACTACAATATTCAAAAGGAGTCTACTCTT
CATCTTGTGTTGAGACTTCTGGTGGTGCTAAGAAAAGGAAGAAGAAGTCTTACACCACTCCCAAGAAGAATAAGC
ACAAGAGAAAAGAAGGTTAAGCTGGCTGTCCTGAAATACTATAAGGTGGATGAGAATGGCAAAATTAGTCGCCTTC
GTCGAGAGTGCCCTTCTGATGAATGTGGTGCTGGGGTGTTTATGGCAAGCCACTTTGACAGACATTATTGTGGCA
AATGTTGTCTGACTTACTGCTTCAACAAACCAGAAGACAAGTAAGTGTATGAGTTAATAAAAAGACATGAACTAAA
AAAAA

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FIGURE 1362

MQIFVKTLTGKTITLEVEPSDTIENVKAKIQGKEGIPPDQORLIFAGKQLEDGRTLSDYNIQKESTLHLVLRLLV
VLRKGRSLTPLPRRISTRERRLSWLS

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FIGURE 1363

CCCGCCCGCTAATGTTTTGGCCGCTTCAAGATGGCGGTGCAGGAGTCGGCGGCTCAGTTGTCCATGACCCTGAAG
GTCCAGGAGTACCCGACCCTCAAGGTGCCCTACGAGACGCTGAACAAACGCTTTCGCGCCGCTCAGAAGAACATT
GACCGGGAGACCAGCCACGTCACCATGGTGGTGGCCGAGCTGGAGAAGACGTTGAGCGGCTGCCCCGCCGTGGAC
TCCGTGGTCAGCCTGCTGGACGGCGTGGTGGAGAAGCTCAGCGTCCTCAAGAGGAAGGCGGTGGAATCCATCCAG
GCCGAGGACGAGAGCGCCAAGCTGTGCAAGCGCCGGATCGAGCACCTCAAAGAGCATAGCAGCGACCAGCCCGCG
GCGGCCAGCGTGTGGAAGAGGAAGCGCATGGATCGCATGATGGTGGAGCACCTGCTGCGTTGCGGCTACTACAAC
ACGGCTGTCAAGCTGGCGCGCCAGAGCGGCATCGAGGACCTAGTGAATATTGAGATGTTCTTGACGGCCAAAGAG
GTGGAGGAGTCCCTGGAGAGGCGTGAGACGGCCACCTGCCTGGCCTGGTGCCATGACAACAAGTCCCGGCTCCGG
AAGATGAAGAGCTGCCTGGAGTTCAGCCTCAGAATCCAGGAGTTCATTGAACTCATCCGGCAGAATAAGAGACTG
GACGCTGTGAGACATGCAAGAAAGCACTTCAGCCAAGCAGAAGGGAGCCAGCTGGACGAGGTGCGCCAGGCCATG
GGCATGCTGGCCTTCCCGCCCGACACGCACATCTCCCGTACAAGGACCTTCTGGACCCTGCACGGTGGCGGATG
CTGATCCAGCAGTTCCGGTACGACAACACCGACTACACCAGCTGGGAAACAATTCTGTGTTACCCCTCACCCTG
CAGGCTGGCCTCTCAGCCATCAAGACACCACAGTGCTACAAGGAGGACGGCAGCTCCAAGAGCCCTGACTGCCCT
GTGTGCAGCCGCTCCCTGAACAAGCTGGCGCAGCCCTGCCCATGGCCCACTGTGCCAACTCCCGCCTGGTCTGC
AAGATTTCTGGCGACGTGATGAACGAGAACAATCCGCCCATGATGCTGCCCAACGGCTACGTCTACGGCTACAAT
TCTCTGCTTTCTATCCGTCAAGATGATAAAGTCGTGTGCCCGAGAACCAAAGAAGTCTTCCACTTCTCACAAGCC
GAGAAGGTGTACATCATGTAGGCCCCACGTCGTGAAGCGCACGCCTCGGGGACGGGCTGCAGTGGGCGGGGAGGC
CACGCCTTCCCTCCTGTCCCACGCTCCAGCCTGCCGCGGCGTTTCTGTTTCTTGCGACCAAAGATCCGTGAGCAAC
GATAAATACTCTTAGGAAGAGAGAAAAATAAGGTTTCATAAGTTTGTACTTGAAAACATTTGGATTGGTAGGATTT
TGTAACACGTCAACCATTTGATGCTTCTGAAAAGTACTTTCAACTTGCGAAGGAACTCTTCTTTAAAGACTGAC
CTAAACACCGAGGGAACTTAAGAACGTTTAAAAATATAGGAGTCCGTGATTTCCCTGTGTTTTAGTTCCTTCC
TTCTGTGAACGATGAGACTTGGAGAACGGGCTGGTCCCTCACCACCTTCCCTGTTGGCCCTGGCCTGGCCGGGGAAG
GTGGCAGCGGCACCGGACTGACCTGCAGTGACCCGCGATGCCGCGCCACGAGGGACACTTATGGCTTCATTCGAG
AGCTGCTGCCAAAACGCCTGGCGCCGCCACCGTCGGGGGCTGGCTTCGAGGACGCCCCGCTGCCTCGCGGGTCGT
GTCCGCGGGACTGTGTTTCGTACGTGCATAGTTTTGATATCACATCGCGGGGCTGTGTTTCGTAGCTGCGTCGTTTC
GATATCACACCCTCTGTGTGCCGCTTACTTCCCTGCTTCGAGAATGTATAACGTGGAAATCCACGGGACCAAATT
TCTGCAGAGGCCTTGCCGGATGGTTCCATAACTGTAGAGTCTAATTGCTATCCATTACAGAAATTAATCGTTTTCAG
TTGAAAGAAGTACTGATGACTTTTCAAACAAATGAACCACCGTAGCTGACAGAGAACCGTATCGTAGAGGTTTG
TAGTTAGTGCTTATTTTTGCATGTTGATGTTGACTAGCTAATAAACTGTAAATGTAAACCATGCGAATAAAATGG
TTTTCTATTTCTC

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FIGURE 1364

CCCCAGGTCCGGACAGGCCGAGATGACGCCGAGCCCCCTGTTGCTGCTCCTGCTGCTGCCGCCGCTGCTGCTGGGGGC
CTTCCCGCCGGCCGCCGCCGCCGAGGCCCCCAAAGATGGCGGACAAGGTGGTCCCACGGCAGGTGGCCCGGCT
GGGCCGCACTGTGCGGCTGCAGTGCCAGTGAGGGGGGACCCGCCGCGCTGACCATGTGGACCAAGGATGGCCG
CACCATCCACAGCGGCTGGAGCCGCTTCCGCGTGCTGCCGAGGGGCTGAAGGTGAAGCAGGTGGAGCGGGAGGA
TGCCGGCGTGACGTGTGAAGGCCACCAACGGCTTCGGCAGCCTGAGCGTCAACTACACCCTCGTCTGTGCTGGA
TGACATTAGCCCAGGGAAGGAGAGCCTGGGGCCCCGACAGCTCCTCTGGGGGTCAAGAGGACCCCGCCAGCCAGCA
GTGGGCACGACCGCGCTTCACACAGCCCTCCAAGATGAGGCGCCGGGTGATCGCACGGCCCGTGGGTAGCTCCGT
GCGGCTCAAGTGCGTGGCCAGCGGGCACCCCTCGGCCCGACATCACGTGGATGAAGGACGACAGGCCCTTGACGCG
CCCAGAGGCCGCTGAGCCCAGGAAGAAGTGACACTGAGCCTGAAGAACCTGCGGCCGGAGGACAGCGGCCAA
ATACACCTGCCGCGTGTCGAACCGCGCGGGCGCCATCAACGCCACCTACAAGGTGGATGTGATCCAGCGGACCCG
TTCCAAGCCCGTGCTCACAGGCACGCACCCCGTGAACACGACGGTGGACTTCGGGGGGACACGTCCCTCCAGTG
CAAGGTGCGCAGCGACGTGAAGCCGGTGATCCAGTGGCTGAAGCGCGTGGAGTACGCGCCGAGGGCCGCCACAAC
TCCACCATCGATGTGGGCGGCCAGAAGTTTGTGGTGCTGCCCCAGGGTGACGTGTGGTTCGCGGCCCGACGGCTCC
TACCTCAATAAGCTGCTCATCACCCGTGCCCCCAGGACGATGCGGGCATGTACATCTGCCTTGCGCCAAACACC
ATGGGCTACAGCTTCCGCAGCGCCTTCCTCACCGTGCTGCCAGACCCAAAACCGCCAGGGCCACCTGTGGCCCTCC
TCGTCTCGGCCACTAGCCTGCCGTGGCCCGTGGTTCATCGGCATCCCAGCCGGCGCTGTCTTCATCCTGGGCACC
CTGCTCCTGTGGCTTTGCCAGGCCCAGAAGAAGCCGTGCACCCCCGCGCCTGCCCTCCCCTGCCTGGGCACCGC
CCGCCGGGGACGCCCCGCGACCGCAGCGGAGACAAGGACCTTCCTCGTTGGCCGCCCTCAGCGCTGGCCCTGGT
GTGGGGCTGTGTGAGGAGCATGGGTCTCCGGCAGCCCCCAGCACTTACTGGGCCAGGGCCAGTTGCTGGCCCT
AAGTTGTACCCCAAACCTCTACACAGACATCCACACACACACACACACTCTCACACACACTCACACGTGGAG
GGCAAGGTCCACCAGCACATCCACTATCAGTGCTAGACGGCACCGTATCTGCAGTGGGCACGGGGGGGCCGCCA
GACAGGCAGACTGGGAGGATGGAGGACGGAGCTGCAGACGAAGGCAGGGGACCCATGGCGAGGAGGAATGGCCAG
CACCCCAGGCAGTCTGTGTGTGAGGCATAGCCCCCTGGACACACACACACAGACACACACTGCCTGGATGCATG
TATGCACACACATGCGCGCACACGTGCTCCCTGAAGGCACACGTACGCACACACGCACATGCACAGATATGCCGC
CTGGGCACACAGATAAGCTGCCCAAATGCACGCACACGCACAGAGACATGCCAGAACATAAAGGACATGCTGCC
TGAACATACACACGCACACCCATGCGCAGATGTGCTGCCTGGACACACACACACACAGGATATGCTGTCTGGAC
GCACACACGTGCAGATATGGTATCCGGACACACACGTGCACAGATATGCTGCCTGGACACACAGATAATGCTGCC
TTGACACACACATGCACGGATATTGCCTGGACACACACACACACACGTGTGCACAGATATGCTGTCTGGACACGC
ACACACATGCAGATATGCTGCCTGGACACACACTTCCAGACACACGTGCACAGGCGCAGATATGCTGCCTGGACA
CACGCAGATATGCTGTCTAGTCACACACACACGCAGACATGCTGTCCGGACACACACACGCATGCACAGATATGC
TGTCCGGACACACACACGCACGCAGATATGCTGCCTGGACACACACAGATAATGCTGCCTCAACACTCACACA
CGTGCAGATATTGCCTGGACACACACATGTGCACAGATATGCTGTCTGGACATGCACACACGTGCAGATATGCTG
TCCGGATACACACGCACGCACACATGCAGATATGCTGCCTGGGCACACACTTCCGGACACACATGCACACACAGG
TGCAGATATGCTGCCTGGACACACGCAGACTGACGTGCTTTTGGGAGGGTGTGCCGTGAAGCCTGCAGTACGTGT
GCCGTGAGGCTCATAGTTGATGAGGGACTTTCCCTGCTCCACCGTCACTCCCCAACTCTGCCCGCCTCTGTCCC
CGCCTCAGTCCCCGCTCCATCCCCGCTCTGTCCCCTGGCCTTGGCGGCTATTTTTGCCACCTGCCTTGGGTGC
CCAGGAGTCCCCTACTGCTGTGGGCTGGGGTTGGGGGCACAGCAGCCCCAAGCCTGAGAGGCTGGAGCCCATGGC
TAGTGGCTCATCCCCACTGCATTCTCCCCCTGACACAGAGAAGGGCCTTGGTATTTATATTTAAGAAATGAAGA
TAATATTAATAATGATGGAAGGAAGACTGGGTTCAGGGACTGTGGTCTCTCCTGGGGCCCCGGGACCCGCTGGT
CTTTCAGCCATGCTGATGACCACACCCCGTCCAGGCCAGACACCACCCCCCACTGTCTGTGGTGGCCCCAG
ATCTCTGTAATTTTATGTAGAGTTTGTAGCTGAAGCCCCGTATATTTAATTTATTTTGTAAACATGAAAGTGCAT
CCTTTCCTCC

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FIGURE 1365

CCAAAGATGTTGACCAGGAAGATCAAGCTGTGGGACATCAACGCCCACATCACCTGCCGCCTGTGCAGCGGGTAC
CTCATCGACGCCACCACGGTGACCGAGTGTCTGCACACCTTCTGCAGGAGCTGCCTGGTGAAGTACCTGGAGGAG
AACAACACCTGCCCCACCTGCAGGATTGTGATCCACCAGAGCCACCCCTGCAGTACATCGGTCATGACAGAACC
ATGCAAGATATTGTTTACAAATTGGTACCAGGCCTCCAAGAAGCGGAAATGAGAAAGCAGAGGGAGTTCTATCAC
AAATTGGGCATGGAGGTGCCGGGAGACATCAAGGGGGAGACCTGCTCTGCAAAACAGCACTTAGATTCCCATCGG
AATGGTGAACCAAAGCAGACGACAGTTCAAACAAAGAGGCCGCGGAGGAGAAGCCGGAGGAGGACAACGACTAC
CACCGCAGCGACGAGCAGGTGAGCATCTGCCTGGAGTGTAACAGCAGCAAACCTGCGCGGGCTGAAGCGGAAGTGG
ATCCGCTGCTCAGCCCAGGCGACCGTCTTGCACTCTGAAGAAGTTCATCGCCAAAAAACTCAACCTTTCATCCTTT
AACGAGCTGGACATTTTATGCAACGAGGAGATCCTGGGCAAGGACCACACACTCAAGTTCGTGGTTGTCACTAGG
TGGAGATTCAAGAAGGCGCCGCTCCTGCTGCACTACAGACCCAAGATGGACTTGCTGTGAATGGTGCCACACAGC
GCCCACAGACTGGGCCCTCGCACCCCTTGGGTGCTCCCGGCCGCCGCGCTTAAGAACATTGCCTCTGGGTGTCATG
TGGACCAGACTTCTGAATAGAGAATATTTATAACTTTTGTATGAGAGAG

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FIGURE 1366

GGGCTTGTCGGGCATCCTGCTCCGTCTGCAGGTTGTGCTTCCGGTGCGGAGGTCATGGACAAAATGTGCCACCG
GTGCAGGTCTCTCCGCTCATCAAGCTCGGCCGCTACTCCGCCCTGTTCTCGGTGTGGCCTACGGAGCCACGCGC
TACAATTACCTAAAAACCTCGGGCAGAAGAGGAGAGGAGGATAGCAGCAGAAGAGAAGAAGAAGCAGGATGAACTG
AAACGGATTGCCAGAGAATTGGCAGAAGATGACAGCATATTAAAGTGAGTGACCCTGCGACCCACTCTTTGGACC
AGCAGCGGATGAATAAAGCTTCCTGTGTTGTGTGAT

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FIGURE 1367

MVFPVQVSPLIKLGRYSALFLGVAYGATRYNYLKPRAEERRIAAEEKKKQDELKRIARELAEDDSILK

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FIGURE 1368

GGAGTGGCAGCCGGAGTCTGAACTGTCCTGGGGGACCAAGCAGGAGCTTAAGATGGGCAAGACCTGGGGCCCTGG
GCAGACGCATCAAAGCAGGCAGAAGCAGGCATGGCCAGCAGGAAGACCAAGAAGAAGGAAGGGGGTGCCCTCCGG
GCCCAGAGAGCCTCATCCAATGTCTTCTCCAACCTTTGAGCAGACTCAGATCCAGGAGTTCAAGGAGGCATTACACA
CTCATGGATCAGAACCGAGATGGCTTCATTGACAAGGAGGACCTGAAGGACACCTATGCCTCCCTGGGCAAGACC
AACGTCAAGGACGACGAGCTGGACGCCATGCTCAAAGAGGCCTCGGGGCCCATCAACTTCACCATGTTTCTGAAC
CTGTTTGGGGAGAAGCTGAGCGGTACCGACGCCGAGGAGACCATTCTTAACGCCTTCAAGATGCTGGACCCGGAC
GGGAAAGGGAAAATCAACAAGGAGTACATCAAGCGTCTGCTGATGTCCCAGGCTGACAAGATGACGGCGGAAGAG
GTGGACCAGATGTTCCAGTTCGCCTCCATCGATGTGGCGGGCAACCTGGACTACAAGGCGCTCAGCTACGTGATC
ACCCACGGGGAGGAGAAGGAGGAGTGAGACCCAGCCGGGTCAATAAACCTGGACGCTTGGA

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FIGURE 1369

MASRKTKKKKEGGALRAQRASSNVFSNFEQTQIQEFKEAFTLMDQNRDGFIDKEDLKDTYASLGKTNVKDDELDAM
LKEASGPINFMTFLNLFGEKLSGTDAEETILNAFKMLDPDGKGKINKEYIKRLLMSQADKMTAEVDMFQFASI
DVAGNLDYKALSYVITHGEEKEE

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FIGURE 1370

CAGTAGTCCTTGGGGCGGAAGTGGCCCCCGTGGCCCCGGCCGGCTCGGCCCCACCTCCGCCCCGAGGCGGTCCC
GGCCCCACGCGGGAAGGTCCCTTAAGCCCCGGGCGGCGGGACCGGCGGAGACCCGTGGAGGCCGCCGACGATGG
CGGGGCCGACGGAGGCCGAGACGGGGTTGGCCGAGCCCCGGGCCCTGTGCGCGCAGCGGGGCCACCGCACCTACG
CGCGCCCGCTGGGTGTTTCCTGCTCGCGATCAGCCTGCTCAACTGCTCCAACGCCACGATCAACTGGCTGTCACTGG
TCTACCTCGTGGTATCCACCCATTTGGCGTGGCGGCCATCTGGATCCTGGACTCCGTGCGGGCTCCGTGCGGCGC
TCGGTGTCTATACCATCCCTGCTGGCGTCTGCTGCTGCTGCCACCATCTGCCTGTGGGAGAGTGTGCCCCCA
CCCCGCCCTCTGCCGGGGCTGCCAGCTCCACCTCAGAGAAGTTCTGGATGGGCTCAAGCCGCAGCTCATGTGGA
ACAAGGCCTATGTCATCCTGGCTGTGTGCTTGGGGGAATGATCGGGATCTCTGCCAGCTTCTCAGCCCTCCTGG
AGCAGATCCTCTGTGCAAGCGGCCACTCCAGTGGGTTTTCCGGCCTCTGTGGCGCTCTCTTCATCACGTTTGGGA
TCCTGGGGGCACTGGCTCTCGGCCCTATGTGGACCGGACCAAGCACTTCACTGAGGCCACCAAGATTGGCCTGT
GCCTGTTCTCTCTGGCCTGCGTGCCTTTGCCCTGGTGTCCCAGCTGCAGGGACAGACCCTTGGCCTGGCTGCCA
CCTGCTCGCTGCTCGGGCTGTTTGGCTTCTCGGTGGGCCCCGTGGCCATGGAGTTGGCGGTGAGTGTTCCTTCC
CCGTGGGGGAGGGGGCTGCCACAGGCATGATCTTTGTGCTGGGGCAGGCCGAGGGAATACTCATCATGCTGGCAA
TGACGGCACTGACTGTGCGACGCTCGGAGCTGTCTTGTCCACCTGCCAGCAGGGGGAGGATCCACTTGACTGGA
CAGTGTCTCTGCTGCTGATGGCCGGCCTGTGCACCTTCTTCAGCTGCATCCTGGCGGTCTTCTTCCACACCCCAT
ACCGGCGCCTGCAGGCCGAGTCTGGGGAGCCCCCTCCACCCGTAAACGCCGTGGGCGGCGCAGACTCAGGGCCGG
GTGTGGACCGAGGGGGAGCAGGAAGGGCTGGGGTCTGGGGCCAGCACGGCGACTCCGGAGTGCACGGCGAGGG
GGGCCTCGCTAGAGGACCCAGAGGGCCCGGGAGCCCCACCCAGCCTGCCACCGAGCGACTCCCGTGCGCAAG
GCCCAGCAGCCACCGACGCGCCCTCCCGCCCCGGCAGACTCGCAGGCAGGGTCCAAGCGTCCAGGTTTATTGACC
CGGCTGGGTCTCACTCCTCCTTCTCCTCCCCGTGGGTGATCACGTAGCTGAGCGCCTTGTAGTCCAGGTTGCCCC
CCACATCGATGGAGGCGAACTGGAACATCTGGTCCACCTGCGGGCGGGGGCGAAAGGGCTCCTTGCGGGCTCCGG
GAGCGAATTACAAGCGCGCACCTGCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1371

MAGPTEAETGLAEPRALCAQRGHRITYARRWVFLLAISLLNCSNATINWLSLVYLVVSTPFGVAAIWILDSVGLRA
ALGVYTIPAGVVCLLSTICLWESVPPTPPSAGAASSTSEKFLDGLKPQLMWNKAYVILAVCLGGMIGISASFSA
LEQILCASGHSSGFSGLCGALFITFGILGALALGPYVDRTHKFTEATKIGLCFLSLACVPFALVSQLOGQTLALA
ATCSLLGLFGFSVGPVAMELAVECSFPVGEAATGMIFVLGQAEGILIMLMTALTVRRSELSLSTCQQGEDPLD
WTVSLLLMAGLCTFFSCILAVFFHTPYRRLQAESGEPPSTRNAVGGADSGPGVDRGGAGRAGVLGPSTATPECTA
RGASLEDPRGPGSPHPACHRATPRAQGAATDAPSRPGRLAGRVQASRFIDPAGSHSSFSSPWVIT

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FIGURE 1372

GGCACGAGGGGTTCGTTTTCCGGAGTGGAGGGCACGCCAGGGTGTCTGAAGCTGAGACCCCGGGCTCGCAGTCGC
CCCATGAATTTTCGAGTTCCGCAACTGACGCTACTGGGCGGGGCTTCATGGCCAGGGCCTCGCTCAGGCCTAAGTT
TCCCCACCTGTGCTCAATGCACAGGTGCGGTGCCGCTCCAGGGCCGGCCGAGAAGAGAGGCCCGCACCCGCACGG
GGACTGCATCTCCCAGAGCGCCCCGCGAGCGGGCCGAGCGGGCGGGACTCCATGCCCTAGAGTGCCCCGCGGGCGGC
CGGGCGGCGGGACTCCATGTCTTAGAGTGCCCCGCGGGCGGGCGGGCGGGCGGGACTCCATGTCTTAGAGTGCCCC
GCGGGCGGCGGGCGGGCGGGACTCCATGTCTTAGAGTGCCCCGCGGGCGGGCGGGCGGGCGGGCGGGCGCAACCGAC
AGGTCCGGGACTGGGCGCTGCGGCCTCGTCCGCGCGCGGGGCGGGGCGGGGCTAGCTCGACAGCTTCCCGGCGGGCTG
CGCGATGGACAGCCCCGAGGTGACCTTCACTCTCGCCTATCTGGTGTTCGCCGTGTGCTTCTGTGTTACGCCCAA
CGAGTTCCACGCGGCGGGGCTCACGGTGCAGAACCTGCTGTGGGCTGGCTGGGCAGCGAGGACGCCGCCTTCTGT
GCCCTTCCACTTGCGCCGACGGCCGCCACGCTGTTGTGCCACTCGCTGCTGCCGCTCGGCTACTACGTGGGCAT
GTGCCTTGCGGCTTCAGAAAAGCGGCTCCACGCCCTCAGCCAGGCCCCCTGAGGCCTGGCGGGCTCTTCTGTCTGCT
GGCCGTGACCTTCCCTCCATCGCCTGCATCCTGATCTACTACTGGTCCCCTGACCGGTGGGCCTGCCACCCACT
GGCGCGCACCTTGGCCCTTACGCCCTCCACAGTCTGGCTGGCAGGCTGTTGCCTCCTCTGTCAACACTGAGTT
CCGGCGGATTGACAAGTTTGCCACCGGTGCACCAGGTGCCCGTGTGATTGTGACAGACAGTGGGTGATGAAGGT
AACCACCTACCGAGTGACGTTGGCCCAGCAGCAGGACGTGCACCTGACTGTGACGGAGTCTCGGCAGCATGAGCT
CTCGCCAGACTCGAACTTGCCCGTGCAGTCTCTCACCATCCGTGTGGCCAGCACCAACCCTGCTGTGCAGGCCTT
TGACATCTGGAGCTGGAGGCTGCATAGGCTGCATGCAGACACGTGCCAGCGTGAAGCTGGTGAAGACCTGCCAG
GAGGCAGCCACAGGCGAGTGCCAGCAGTGTTACTGCCGCCCATGTGGTGCCTCACCTGCATGGGCAAGTGGTTC
GCCAGCCGCCAGGACCCCCCTGCGCCCTGACACCTGGCTGGCCAGCCGCGTGCCTGCCCACTGCCGCGCACGC
TTCTGCATCCTGGATGTGTGCACCGTGCGCTGAGTGGGCTGGGGCCTTGAGGTGACTCTGTGTCTCCCCGCAAAG
CCACAGGGCAGGGAAGGGGGTGGCTGGGCCTCCTGGCTGGCAAAGGGCTCTACTTAAAGCACATGATGTAGAGCA
ACTCGCCTCTGCCCTGGGTCTGCAGAAAGGTGAGGACTTTTGGTTAAAAGCAATCCTCATGAAAACACCCACCC
TGCTTGGCAGCCAGGGTACAAGTCCTGGGCACCTCCTCTTTGCCTCCCTCCTGCCCTTTCTGTGTGGTGGGGGC
AGATCCTGCACACACAGACACAGCGTCTGCCCCGAGCCATTCCCTGGAGACCCTGGGTCTACCCAGGTGGTCG
TCATCTGGGCCATTTGCCTTACTTCTCTGGAGCATACCCACCCTCAGTTACGTGCCAGACCTGGACCGCATTCTC
CTGCCCTGTCTGGAGCTGGCCCCCTGGCTGCCTGGAGGACCCTGGGTAGGTCTGAGGGTGGGATGGAGAAGAGG
GCACTGCTGTGGTGTGGGAGCAGTCTTGGGGCTTCTTGGTGGCTGTGACCAGTTGAGGGGCTGTTCTTGGGTGGG
GTGGCAATGGGAGGACAGGTGAGAGCGCCCTCATTGTGGGGCTGCCCTCCGGGTTTCTCATCCTGTCTTGGT
GCCTTTTTTCTGCCCAACAAGTCCAGGGAAGGCCGAGGTCTCAGACTCCTGGGTAGGGGTGGGGGTTTGTAGTTGAG
GACCAAGTGCCATAGCGACATCCAGAACACAAGCCACCAGGGGTCCAGCCAGGCTACCCACTCCCCTAGGGT
CTCCCAGGCTCAGAAGGGGATGCACGCCCCCTGTGGTCAAGCCTCTGGTGGGCGTCTTGCCAGTTCTTGATGGT
TCAAGGGGAGGGGGGATGTTGGCCAGGCCCCAGGGCACAGCCCTGACACAGGTGTGGCTACTGGAGGGGCCTTCA
TACCTGCGGCCCCAAAGCCCCCTGGGCTTGGCTGTTTGGGAGAGGTGATGGACTCCGGGGGCTGACACTTGGG
ATTTGGGAGGCTTCTTAGAGCGCTCAGCAGGTGAAGGCAGCAGGGGCCATGGCCGGGAGCCAGGCCTAGCTTTGA
ACTGAGTTTCAAGGGCTGCCAAAGAGGGGCAGTGGGTGGGGTTGTTTTTACTACAAAATAAGTTACTTAGTTTT
ATAAAGACAAACCGATTGTAGCCAAATGACACCATATTTAATAAAATTTAGTCTGAAGTGAAAAAAAAAAAAAA
AAAAAA

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FIGURE 1373

MDSPEVTFTLAYLVFAVCFVFTPNEFHAAGLTVQNLLSGWLGSEDAAFVFFHLRRTAATLLCHSLLPLGYYVGMC
LAASEKRLHALSQAPEAWRLFLLAVTLPSIACILIIYYWSRDRWACHPLARTLALYALPQSGWQAVASSVNTEFR
RIDKFATGAPGARVIVTDTWVMKVTTYRVHVAQQQDVHLTVTESRQHELSPDSNLPVQLLTIRVASTNPAVQAFD
IWSWRPA

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FIGURE 1374

GGCGGCGGTAGCAGCCAGGCTTGGCCCCCGGCGTGGAGCAGACGCGGACCCCTCCTTCCTGGCGGCGGCGGCGCG
GGCTCAGAGCCCGGCAACGGGCGGGCGGGCAGAAATGAGTCTGCAGGTCTTAAACGACAAAAATGTCAGCAATGAA
AAAAATACAGAAAATTGCGACTTCCTGTTTTTCGCCACCAGAAAGTTACCGGAAGATCGTCTGTTCTTCGTGTGTCA
CAGAAAGAAAATGTGCCACCCAAGAACCTGGCCAAAGCTATGAAGGTGACTTTTCAGACACCTCTGCGGGATCCA
CAGACGCACAGGATTCTAAGTCTTAGCATGGCCAGCAAACCTTGAGGCTCCTTTCACTCAGGATGACACCCTTGGA
CTGGAAAACCTCACACCCGGTCTGGACACAGAAAGAGAAACCAACAGCTCATCAAGGAAGTGGATGCCAAAACCTACT
CATGGAATTCTACAGAAACCAAGTGGAGGCTGACACCGACCTCCTGGGGGATGCAAGCCCAGCCTTTGGGAGTGGC
AGCTCCAGCGAGTCTGGCCAGGTGCCCTGGCTGACCTGGACTGCTCAAGCTCTTCCCAGAGCCCAGGAAGTTCT
GAGAACCAAATGGTGTCTCCAGGAAAAGTGTCTGGCAGCCCTGAGCAAGCCGTGGAGGAAAACCTTAGTTCTCTAT
TCCTTAGACAGAAGAGTGACACCCGCCTCTGAGACCCTAGAAGACCCTTGACAGGACAGAGTCCCAGCACAAAGCG
GAGACTCCGCACGGAGCCGAGGAAGAATGCAAAAGCGGAGACTCCGCACGGAGCCGAGGAGGAATGCCGGCACGGT
GGGGTCTGTGCTCCCGCAGCAGTGGCCACTTCGCCTCCTGGTGCAATCCCTAAGGAAGCCTGCGGAGGAGCACCC
CTGCAGGGTCTGCCTGGCGAAGCCCTGGGCTGCCCTGCGGGTGTGGGCACCCCCGTGCCAGCAGATGGCACTCAG
ACCCTTACCTGTGCACACACCTCTGCTCCTGAGAGCACAGCCCCAACCAACCACCTGGTGGCTGGCAGGGCCATG
ACCCTGAGTCTCTCAGGAAGAAGTGGCTGCAGGCCAAAATGGCCAGTCTCTCGAGGAGCGGACCTGTAAAACCTAGAA
TTTGATGTATCTGATGGCGCCACCAGCAAAAAGGGCACCCCCACCAAGGAGACTGGGAGAGAGGTCCGGCCTCAAG
CCTCCCCTTGAGGAAAGCAGCAGTGAAGGCAGCAAAAAGGCCCGCAGGAGGTGGAGGAGGACGACGGTAGGAGCGGA
GCAGGAGAGGACCCCCCATGCCAGCTTCTCGGGGCTCTTACCACCTCGACTGGGACAAAATGGATGACCCAAAC
TCATCCCCTTCGGAGGTGACACCAAGTCTGGTTGCACTGAGGCCAGCCCCAGAAAGCCCTGAGACCAGGCTG
GGCCAGCCAGCGGTGAACAGTTGCATGCTGGGCCTGCCACGGAGGAGCCAGGTCCCTGTCTGAGCCAGCAGCTG
CATTCAGCCTCAGCGAGGACACGCCTGTGGTGCAGTTGGCAGCCGAGACCCCAACAGCAGAGAGCAAGGAGAGA
GCCTTGAACCTCTGCCAGCACCTCGCTTCCCAAGCTGTCCAGGCAGTGAAGCAGTGGCCACCCATCAGCAGGGG
CAGCCTGCCTTGAGAGCTGAAAGAGGAGAGCTTCAGAGACCCCGCTGAGGTTCTAGGCACGGGCGCGGAGGTGGAT
TACCTGGAGCAGTTTGGAACCTCCTCGTTTAAGGAGTCGGCCTTGAGGAAGCAGTCCTTATACCTCAAGTTTCGAC
CCCCTCCTGAGGGACAGTCTGTGTAGACCAAGTGGCCGTCGACCCAGAGACCAGCAGCATGCACGGTGCAAATGAG
ACTCCCTCAGGACGTCCGCGGGAAGCCAAGCTTGTGGAGTTCGATTTCTTGGGAGCACTGGACATTCTGTGCCA
GGCCACCCCCAGGTGTTCCCGCGCCTGGGGGCCACCCCTGTCCACCGGACCTATAGTGGACCTGCTCCAGTAC
AGCCAGAAGGACCTGGATGCAGTGGTAAAGGCGACACAGGAGGAGAACCAGGAGCTGAGGAGCAGGTGTGAGGAG
CTCCACGGGAAGAACCTGGAACCTGGGGAAGATCATGGACAGGTTTCAAGAGGTTGTGTACCAGGCCATGGAGGAA
GTTTCAAGCAGAAGGAACCTTCCAAAGCTGAAATCCAGAAAGTTCTAAAAGAAAAAGACCAACTTACCACAGAT
CTGAACTCCATGGAGAAGTCTTCTCCGACCTCTTCAAGCGTTTTGAGAAACAGAAAGAGGTGATCGAGGGCTAC
CGCAAGAACGAAGAGTCACTGAAGAAGTGGTGGAGGATTACCTGGCAAGGATCACCCAGGAGGGCCAGAGGTAC
CAAGCCCTGAAGGCCACGCGGAGGAGAAGCTGCAGCTGGCAAACGAGGAGATCGCCAGGTCCGGAGCAAGGCC
CAGGCGGAAGCGTTGGCCCTCCAGGCCAGCTGAGGAAGGAGCAGATGCGCATCCAGTCGCTGGAGAAGACAGTG
GAGCAGAAGACTAAAGAGAACGAGGAGCTGACCAGGATCTGCGACGACCTCATCTCCAAGATGGAGAAGATCTGA
CCTCCACGGAGCCGCTGTCCCGCCCCCTGCTCCCGTCTGTCTGTCTGTCTGATTCTCTTAGGTGTCAATGTTT
TTTTTCTGTCTTGTCTTCAACTTTTTTTTAAACTAGATTGCTTTGAAAACATGACTCAATAAAAGTTTCCTTTC
AATTTAAAAAAA

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FIGURE 1375

MSLQVLNDKNVSNEKNTENCDFLFSPPEVTGRSSVLRVSQKENVPPKNLAKAMKVTFQTPLRDPQTHRILSPSMA
SKLEAPFTQDDTLGLENSHPVWTQKENQQLIKEVDAKTTHGILQKPVEADTDLLGDASPAFGSGSSSES GPGALA
DLDCSSSSQSPGSSSENQMVSPGKVSGSPEQAVEENLSSYSLDRRVTPASETLEDPCRTESQHKAETPHGAEEEECK
AETPHGAEEECRHGGVCAPAAVATSPPGAIPKEACGGAPLQGLPGEALGCPAGVGTPVPADGTQTLTCAHTSAPE
STAPT NHLVAGRAMT LSPQEEVAAGQMASSSRSGPVKLEFDVSDGATSKRAPPPRRLGERSGLKPFLRKA AVRQQ
KAPQEVEEDDGRSGAGEDPPMPASRGSYHLDWDKMDDPNFIPFGGDTKSGCSEAQPPESPETRLGQPAAEQLHAG
PATEEPGPCLSQQ LHSASAEDTPVVQLAAETPTAESKERALNSASTSLPTSCPGSEPVPTHQOGQPALELKEESF
RDP AEVLGTGA EVDYLEQFGTSSFKESALRKQSLYLKFDPLL RDSPGRPV PVATETSSMHGANETPSGRPREAKL
VEFD FLGALDIPVPGPPPGVPAPGGPPLSTGPIVDLLQYSQKDLD AVVKATQEENRELR SRCEELHGKNLELGI
MDRFEEVVYQAMEEVQKQKELSKAEIQKVLKEKDQLTTDLNSMEKSFSDLFKRF EKQKEVIEGYRKNEESLKKCV
EDYLARITQEGQRYQALKAHAEEKLQLANEEIAQVRSKAQAEALALQASLRKEQMRIQSLEKTVEQKTKENEELT
RICDDLISKMEKI

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FIGURE 1376A

TGGTCTTGAACCTCCTGACCTTGTGATCCGCTCGCCTCAGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACC
GTGCCTGTCTAGAACCACTGGTAACTCTTAACTGAGACAAGATTTGCCCATGTTGCCAGGCTGGTCTCGAACT
TCTGAGCTCAAGCGATCTACCTGCCTCGTCTCCCAAAGTGTTGGAATTGCAGGTGTGAGCCACTGCACCCGGCC
CTTGCCTCATGTTTGAATGATAATTTACCTGGGCATAAAATCTGGACACTTGTGGTGGCAGGAGCTGTCTGCTT
TTCTGTGGAGACTGCGGGTTGCAGACACCAGCAGCCCCCTATTGCTGCACGTCAGGTGTCTCCACCTCAGTACT
GTGGACATCTCGGGCCGCATAGCCCTGTTGCGCGGGCATCCTGTGCGTTGCAGGAGATGCAGCAGCATCCATGAC
CGCAACCCATCAGAGTGTTCTAAGAACGGAAGCATCTGGGCTGGATGGAATTTAGCATCAAGCAGAGTCCCCTTT
CTGTTTCAAGTGTTGTAAAGTGATGAAGCAGGACCCAGAAATCCTCGGCAGTGCCAAACGGGAAGACTC
CGAGCTGCGAGGTGAACCGGAGTGTTCTGTGTTCTCAGCAAAGCCCAGCTCTCCAGTAGCCTGCAGGAGGGGG
TCATGCAGAAAGTTTAAACGGCCACGACGCCCTGCCCTTTATTCCAGCCGACAAGCTGAAAGATCTTACTTCCCGGG
TGTTTAAATGGAGAACCCGGCGCACAGATGCCAACTGCGTTTTGAGTCCCAGGAAATGAAAGGGATTGGGACAC
CCCCTAACACTACCCCTATCAAAAATGGCTCTCCAGAAATTAAGCTGAAAATCACCAAAACATACATGAATGGGA
AGCCTCTCTTTGAATCTTCCATTTGTGGTGACAGTGCTGCTGATGTGTCTCAGTCAGAAGAAAATGGACAAAAC
CAGAAAACAAGGCGAGAAGGAACAGGAAGAGGAGCATAAAATATGACTCCTTGCTGGAGCAGGGCCTTGTCGAAG
CAGCTCTTGTGTCTAAGATCTCAAGTCCTTCAGATAAAAAGATTCCAGCTAAGAAAGAGTCTTGTCAAAACACTG
GAAGAGACAAAGACCACCTGTTGAAATACAACTGTTGGTGATTTGGTGTGGTCCAAAGTGTCGGGTACCTTGGT
GGCCTTGATGGTTTTCTGCAGATCCACTCCTTCACAGCTATACCAAACCTTAAAGGTCAGAAAAAGAGTGACGCC
AGTATCACGTACAGTTCTTTGGTGACGCCCCAGAAAGAGCTTGGATATTTGAGAAGAGCCTCGTAGCTTTTGAAG
GAGAAGGACAGTTTGAAAAATTATGCCAGGAAAGTGCCAAGCAGGCACCCACGAAAGCTGAGAAAATTAAGCTAT
TGAAACCAATTTTCAAGGAAATTGAGGGCCAGTGGAATGGGCATTGTTCAAGCAGAAGAAGCTGCAAGCATGT
CAGTGAGGAGCGGAAAGCCAAGTTCACCTTTCTCTATGTGGGGGACCAGCTTCATCTCAACCTCAAGTAGCCA
AGGAGGCTGGCATTGCTGCAGAGTCTTTGGGAGAAATGGCAGAATCCTCAGGAGTCAGTGAAGAAGCTGCTGAAA
ACCCCAAGTCTGTGAGAGAAGAGTGCAATCCCATGAAGAGAAGGCGGAGGGCCAACTGTGTAGCTCTGCAGAGA
CCCTGGAGAGTCACCCCGACATAGGGAAGAGTACTCCTCAAAGACGGCAGAGGCTGACCCCAAGAGGAGTAG
GGTCTCCTCCTGGGAGGAAGAAGACCACAGTCTCCATGCCACGAAGCAGGAAGGGAGATGCAGCATCCAGTTTT
TGGTCTTCTGTCAAAAACACAGGGATGAGGTGGTAGCTGAGCACCAGATGCTTCAGGTGAGGAGATTGAAGAGC
TGCTCAGGTCACAGTGGAGTCTGCTGAGTGAGAAGCAGAGAGCACGCTACAACACCAAGTTTGCCCTGGTGGCCC
CTGTCCAGGCTGAAGAAGACTCTGGTAATGTAAATGGGAAAAAAGAAACACACAAAGAGGATACAGGACCCTA
CAGAAGATGCTGAAGCTGAGGACACACCCAGGAAAAGACTCAGGACGGACAAGCACAGTCTTCGGAAGAGAGACA
CAATCACTGACAAAACGGCCAGAACAAGCTCTTACAAGGCCATGGAGGCAGCCTCCTCGCTCAAGAGCCAGGCAG
CAACGAAAAATCTGTCTGATGCATGTAAACCACTGAAGAAGCGAAATCGGGCTTCCACGGCAGCATCTTCAGCTC
TTGGGTTTAGCAAAAGTTTCTCTCTGCTCCTTAACTGAGAATGAGGTCTCGGACAGCCCCGGGAGACGAGC
CCTCGGAGTCCCCATACGAAAGTGACAGACGAAACACAACTGAAGTATCTGTCTCATCAAAAAGTCTGAGCGAG
GAGTGACTGCCAAAAGGAGTATGTGTGCCAGCTGTGTGAGAAGCCGGGCAGCCTCCTGCTCTGTGAAGGACCTT
GCTGCGGAGCTTTCCACCTCGCCTGCCTTGGGCTTTCCCGGAGGCCAGAAGGGAGGTTACCTGCAGCGAGTGTG
CCTCAGGGATTCACTCATGTTTTCGTGTGTAAAGAGAGCAAGACAGATGTTAAGCGCTGTGTGGTAACTCAGTGTG
GAAAATTTTACCATGAGGCTTGTGTGAAAAAATACCTCTGACTGTATTGAGAGCCGAGGTTTCCGCTGCCCCC
TCCACAGCTGTGTGAGCTGCCATGCTTCCAACCTTCAAACCCAAGGCCGTCAAAGGTAAAATGATGCGGTGTG
TCCGCTGCCCCGTTGCCTATCACAGCGGGGATGCTTGTCTGGCAGCAGGATGCTCAGTGATCGCCTCCAACAGCA
TCATCTGCACTGCCACTTCACTGCTCGGAAGGGGAAGCGACACCACGCCACGTCAACGTGAGCTGGTGTCTCG
TGTGCTCAAAGGGGGGAGCCTTCTGTGCTGTGAGTCTGCCCAGCGGCCTTCCACCCTGACTGCCTGAACATCG
AGATGCCTGACGGCAGCTGGTTCTGCAATGACTGCAGGGCTGGGAAGAAGCTGCACTTCCAGGATATCATTGGG
TGAAACTTGGGAACACAGATGGTGGCCGGCAGAAGTTTGCCATCCCAAAAATGTTCCCAAAATATTCAGAAAA
TGAAGCACGAGATTGGAGAATTCCCTGTGTTTTCTTTGGGTCTAAAGATTATTACTGGACGCATCAGGCGCGAG
TGTTCCTGATGAGGGGGACCGGGGCAGCCGCTACCAGGGGGTCAGAGGGATCGGAAGAGTCTTCAAAAACG
CACTGCAAGAAGCTGAAGCTCGTTTTCTGTGAAATTAAGCTTCAGAGGGAAGCCCGAGAAACACAGGAGAGCGAGC
GCAAGCCCCCACCATAACAAGCACATCAAGGTGAATAAGCCTTACGGGAAAGTCCAGATCTACACAGCGGATATTT
CAGAAATCCCTAAGTGCAACTGCAAGCCCACAGATGAGAATCCTTGTGGCTTTGATTCCGAGTGTCTGAACAGGA

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FIGURE 1376B

TGCTGATGTTTGTAGTGCCACCCGAGGTGTGTCCCGCGGGCGAGTTCTGCCAGAACCAGTGCTTCACCAAGCGCC
AGTACCCAGAGACCAAGATCATCAAGACAGATGGCAAAGGGTGGGGCCTGGTCGCCAAGAGGGACATCAGAAAGG
GAGAATTTGTTAACGAGTACGTTGGGGAGCTGATCGACGAGGAGGAGTGCATGGCGAGAATCAAGCACGCACACG
AGAACGACATCACCCACTTCTACATGCTCACTATAGACAAGGACCGTATAATAGACGCTGGCCCCAAAGGAACT
ACTCTCGATTTATGAATCACAGCTGCCAGCCCAACTGTGAGACCCTCAAGTGGACAGTGAATGGGGACACTCGTG
TGGGCCTGTTGCCGCTCTGTGACATTCTGTCAGGGACGGAGCTGACTTTTAACTACAACCTCGATTGTCTGGGCA
ATGAAAAAACGGTCTGCCGGTGTGGAGCCTCCAATTGCAGTGGATTCTCGGGGATAGACCAAAGACCTCGACGA
CCCTTTTCATCAGAGGAAAAGGGCAAAAAGACCAAGAAGAAAACGAGGCGGCGCAGAGCAAAAGGGGAAGGGAAGA
GGCAGTCAGAGGACGAGTGTCTCCGCTGCGGTGATGGCGGGCAGCTGGTGTGTGTGACCGCAAGTTCTGCACCA
AGGCCTACCACCTGTCTGCGCTGGGCCTTGGCAAGCGGCCCTTCGGGAAGTGGGAATGTCTTGGCATCATTGTG
ACGTGTGTGGCAAACCTTCGACTTCATTTTGCCACCTCTGCCCCAATTCGTCTGTAAAGGAGCACCAGGACGGGA
CAGCCTTCAGCTGCACCCCGGACGGGCGGTCTACTGCTGTGAGCATGACTTAGGGGCGGCATCGGTGAGAAGCA
CCAAGACTGAGAAGCCCCCCCCAGAGCCAGGGAAGCCGAAGGGGAAGAGGCGGCGGCGGAGGGGCTGGCGGAGAG
TCACAGAGGGGCAAATAGCGCCAGGCGGCCGCTTGGCCGGATCCAGGGGCGGTGCAGGGCGGCCGCGCCCTGCCTGC
GGGAGAGGGGCGAGCATGAACTGGCCCGGAGGACCCAGCTCGAGCCGCCAGGACACAGACGTACAGGCCTCCTCGG
GAGGGAGCGCCTCCCCACCACTGAGCCATCCTCAGCAGCGTCCGCTGCGTCTGCACTGATGACCGTCTGAGCCCA
GCTCAGCGTTTCTGGACAAACAGCCTCACTCCTCAGCGTTACCGCCACACTTGAATTTCTCCGAATGTCAAGGTT
CCCTCCCACCTCTATTTTTTTAGGTTAAAGTTAATTGGCATATGGAATGTTTTAATCTCCTCTGAAATGTGTAGCG
TAGGCTTTTCCCAAGGGTGCCTAGAACTCGTCTTCGCGTTGCCCCCTTCTGGCTCTCAGCGCCGTGCCCACTC
GGGAGAGGCTGGGTGAGGCCCGTGTGAGGACTGACCCTGGATTCTCGAAACTGCCATTGTGATCATTACTCTGC
TCTTTGGAATGGCTGTATCATTTTTTTGTACTAATGTGAATTGTTCTCAGAAACGCTTCTTTTCATCCTAGT
GAGAAGCTGGCCCTGCAGGTGGTGGCAGCAATGGTGTGTGAAGATTTCTCCGTAGTTTTTTCTCCTCATGGAT
TTGAATGAAATGCCAATAACACGTCCACTTTCAACGTGTAGTTTACGCGGAGCACTTTCGAGGCCTGGCCGGGTT
GGGCCTACTTCTCACCTGGGCCTATCTTCTGAACTCGCTAGGTTCTTATCAACATTTGGGGGATAACTTTGTATA
TTTTTTTCATTTGGCTTTTCTTTACCAGTTTCTGATTTTTATTCTCAATATATTTTTTGCTAAACCTATTTACAA
ATCACCACCGACTGAAGTGTGTGTTTACTGATGCGGCCCTGAGCTCCATGGCGAAAGGAGTGACTTTGCAGGGCG
TGAGACCGCAGTCTGCTTAGAGCACAGGAAGTGACAACTTAGGGAGCCCCGTAGGGCGCTGCAGGCCCCGGGGAC
CCCAGCACGTGGGTCTAAAGAGAGACGGAGTCTAGCTCTCCTGCCACCCAGAGTGGCTTCCATCTCAGCACTCTG
TGGGTCTGGTGATGGAAGATGCAGTCTCTGCTGATCACATGTGCCCTCTGCCAGGGCACCTACTGAGAGGTGCGG
TCCTGGGGGTGGAGGCCTGCCTGGCAGGTGTGCGTGCCCTCGTACGTGTGTTATGGGCACTGGTCTAGGCCAGGTA
TGACACCCACTCTCCTGTGAGATTTCACTTTAGTTTTTAAAGGTCCAGTTCTACAGAGTGAGACCTATCTATCT
GAGTACTACATATGTTTTAAGACTTGGTTCTTTTTTTGAGGGATCCTTGACCCTGGGAAGTCTGGAGCACCTGA
GAAGGGGGCACCATGTGTGCCCTTTGCCACGTGTCTGAGGGGCTGCTTGTCTGGGAGGGAGGGAGAGAACATTC
AGCAGCAGGTGCTTTTTTATGGCCTTTTCTTAAATAACCTAAGGGGGACACATCCATCTTGACAGAGAAGTTTAC
AGAACTCCCCTTGAAAACCTGCTGCTGAGGCTCCTGTTAAATTTTCTGTGGCATCTTTTATGCCTTGGTAAAAACT
GCAGTGTCTTTGGACCTGAGAGTGGCTACTCCGTGGTTTTTGTGACCTGTAAGCGTGGGGTTTCAGGGGTGTGTGGC
CCTGCAGGGTCCCACGCCTCCCTGAGCACTGACTGGAAGTTTCACTGGCTGGTGGCTGTCCCTTCTCCCATCAGG
GTCCCCAGCAAAGTTAACTACACAGAGGACCCAGGGGAAACGAGCTGTGTAGCCACTGACTTGCTCGCGCGGGCCG
TGGCCTCTGAGGGGCACTCGCCGGTTAAGACAGGGTGGGAGTAGTGCTTTCCAGTTCAGACTCTAACTTCTCCCA
AAGTGTCTTAAGAAAATACTGGATCGGCTCATAGATTTATGCTCCTTATGATGCCCTAACTTGGAAGGTTGTCT
AGGGACAGGCCGGGCAGTGTCCCCACACACACCTTAGAGTGAAGGCCCCAGGGCCCCGCTGTCACTTGCCCCAA
AGATCCCTTCCGGCAGGTAAGGGACTACCAATGCTTACGTCAAAACAGCAGAATCGGCTTTGCAGTGCACCTTGG
GGAGCAGATATTAACCTATTTTTGTGTGGACAGTAGTGAAATCTTGTGATTTTTTAATCGCTTTGATAATACTTC
CAAATTTTATGATTTTTCTGAAGGAAATAATGCAAACATTTTAAATATGTTTTCTCCCCCTTTCCAAAACTGTTA
AACTAATGAGCAAGTAACACTAATTTGAATGTCTCTACAATACCGTTGATAACTCAGTGGAGCCAGGCTTTGG
GGTAGCGGCCCTGAGCTTGACGGGTTTCTCGCCACTGGGGCTGACCACGCCCCCAGCTGTGACCGTGGGTGTGGC
TGGCTCTCGGCCCTGCCAGCTTTGTTCTGAGGACGTGGTGACTTCTGAACATCAGCTTCAATCCTCCATCATT
AATGTGAAGCAAAACACAAAACCGCCCCAATCCCTCAGGATTCTTGGCATCCGAAACCAGCATCTGCACCTAA

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FIGURE 1376C

ACCCATACCCACCCGTGTGCGCCACAGGGGGATGTGTCCGAATGGGCAGCTTAAAATGTGGTCACCTGTGGGGG
AAACTCTTCAGGCACCTGAAGTGAGAACCCAGCTGTCCGTCCTCAGGCCGGCCTTCTTCCGGCGACACCCGTCC
ATGGCTGGCTGGGTCCCCTTCGCAGTGTTTGTCTGTCTTGACATCTAAACCCCGCGTGTGCAGTGCCCATCTTC
CAGGACTACCTTATTTTCCAGAATTAAACCTGTTTTATAATTCAAGTTAATGCAAATGACTGTCAGTTGCCAAAT
ATCTTGATCCTGTGAGTGTAGTTGATGACTGTTTGTAGTCAGTAGAGTAAAATGCTGTGTCCACGGGGTGTAC
AGCCTCACCATACCCTGTTGAGGTGTGAAATGCCCCGTCAGAAATTAAATACAACTTAAATGTGCCTATTGGTG
TCTAAACTTCATACAATGTAAGGTCAGATTCCTTTTAGGAATACTGGGTGCTGTCACCAGGTTTGATAGTTAGAC
TTAAAACTTGAAATTCACTTTTTGGGGGAGGGATATACTGAAATAGAGAGTTGAGACTTGCCAGTTGGGGGAA
AATAGCATTTAAAATGGAAAGCTGTGTTTGGAAAATTGTGTATGAGTATTTTGTATTAAAAACATTTTAAAGGC
TTTTTCTTAA

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FIGURE 1377

MEFSIKQSPLSVQSVVKCIKMKQAPEILGSANGKTPSCEVNRECSVFLSKAQLSSSLQEGVMQKFNGHDALPFIP
ADKLDLTSRVFNGEPGAHDALRFESQEMKGIGTPPNTTPIKNGSPEIKLKITKTYMNGKPLFESSICGDSAAD
VSQSEENGQKPENKARRNRKRSIKYDSLLEQGLVEAALVSKISSPSDKKIPAKKESCPNTGRDKDHLKYNVGD
VWSKVSQYPWWPCMVADPLLHSYTKLKGQKKSARQYHVQFFGDAPERAWIFEKSLVAFEGEGQFEKLCQESAKQ
APTKAEKIKLLKPI SGKLRAQWEMGIVQAEAAASMSVEERKAKFTFLYVGDQLHLNPQVAKEAGIAAESLGEMAE
SSGVSEEAENPKSVREECIPMKRRRRRAKLCSSAETLESHPDIGKSTPQKTAEADPRRGVGSPPGRKKT TVSMR
SRKGDAASQFLVFCQKHRDEVVAEHPDASGEEIEELLRSQWSLLSEKQ RARYNTKFALVAPVQAEEDSGNVNGKK
RNHTKRIQDPTEDAEADTPRKRLRTDKHSLRKRDTITDKTARTSSYKAMEAASSLKSQAATKNLSDACKPLKKR
NRATAASSALGFSKSSSPASLTENEVS DSPGDEPSESPYESADETQTEVSVSSKKSERGVTAKEYVCQLCEK
PGSLLLCEGPCCGAFHLACLGLSRRPEGRFTCSECASGIHSCFVCKESKTDVKRCVVTQCGKFYHEACVKKYPLT
VFESRGFRCLHSCV SCHASNPSNPRPSKGKMMRCVRCPVAYHSGDACLAAGCSVIASNSI ICTAHFTARKGKRH
HAHVNVSWCFVCSKGGSLCCESC PAAFHPDCLNIEMPDGSWFCNDCRAGKKLHFQDI IWVKLGNYRWWPAEVCH
PKNVPPNIQKMKHEIGFPPVFFFGSKDYWTHQARVFPYMEGDRGSRYQGVRGIGRVFKNALQEAEARFREIKLQ
REARETQESERKPPPYKH I KVNKPYGKVQIYTADISEIPKCNCKPTDENPCGFDSECLNRMLMFECHPQVCPAGE
FCQNQCFTKRQYPETKIIKTDGKGWGLVAKRDIRKGFEVNEYVGELIDEEECMARIKHAHENDITHFYMLTIDKD
RIIDAGPKGNYSR FMNHSCQPN CETLKWTVNGDTRVGLFAVCDIPAGTELT FNYNLDCLGNEKTVCRCGASNC SG
FLGDRPKTSTTLSSEEKGKKTKKKTRRRRAKGEGRQSEDECFRCGDDGQLVLC DRKFCTKAYHLSCLGLGKRPF
GKWECPWHHCDVCGK PSTSFCHLCPNSFCKEHQDGTAFSCTPDGRSYCCEHDLGAASVRSTKTEKPPPEPGKPKG
KRRRRRGWRRVTEGK

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FIGURE 1378A

TGGTCTTGAACTCCTGACCTTGTGATCCGCTCGCCTCAGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACC
GTGCCTGTCTTAGAACCACTGGTAACCTCTTAAGTGAACAAGATTTTCGCCATGTTGCCAGGCTGGTCTCGAACT
TCTGAGCTCAAGCGATCTACCTGCCTCGTCTCCCAAAGTGTTGGAATTGCAGGTGTGAGCCACTGCACCCGGCC
CTTGCCCTCATGTTTGAATGATAATTTACCTGGGCATAAAATTCTGGACACTTGTGGTGGCAGAGCTGTCTGCTT
TTCTGTGGAGACTGCGGGTTGCAGACACCAGCAGCCCCCTATTGCTGCACGTCAGGTGTCCTCCACCTCAGTACT
GTGGACATCTCGGGCCGCATAGCCCTGTTGCGCGGGCATCCTGTGCGTTGCAGGAGATGCAGCAGCATCCATGAC
CGCAACCCATCAGAGTGTTCTAAGAACGGAAGCATCTGGGCTGGATCGAATTTAGCATCAAGCAGAGTCCCTTTT
CTGTTTCAAGTGTTGTAAAGTGCATAAAGATGAAGCAGGCACCAGAAATCCTCGGCAGTGCCAAACGGGAAGACTC
CGAGCTGCGAGGTGAACCGCGAGTGTTCTGTGTTTCTCAGCAAAGCCAGCTCTCCAGTAGCCTGCAGGAGGGGG
TCATGCAGAAGTTTAAACGGCCACGACGCCCTGCCCTTTATTCCAGCCGACAAGCTGAAAGATCTTACTTCCCGGG
TGTTTAAATGGAGAACC CGCGCACACGATGCCAAACTGCGTTTTGAGTCCCAGGAAATGAAAGGGATTGGGACAC
CCCCTAACACTACCCCTATCAAAAATGGCTCTCCAGAAATTAAGCTGAAATCACCAAAACATACATGAATGGGA
AGCCTCTCTTTGAATCTTCCATTTGTGGTGACAGTGCTGCTGATGTGCTCAGTCAGAAGAAAATGGACAAAAAC
CAGAAAAACAAGCGAGAAGGAACAGGAAGAGGAGCATAAAATATGACTCCTTGCTGGAGCAGGGCCTTGTGGAAG
CAGCTCTTGTGTCTAAGATCTCAAGTCCTTCAGATAAAAAAGATTCCAGCTAAGAAAGAGTCTTGTCCAAACACTG
GAAGAGACAAAGACCACCTGTTGAAATACAACGTTGGTGATTGTTGGTGTGGTCCAAAGTGTCGGGTTACCCTTGGT
GGCCTTGTCATGGTTTTCTGCAGATCCACTCCTTCACAGCTATACCAAACCTTAAAGGTCAGAAAAAGAGTGACGCC
AGTATCACGTACAGTTCTTTGGTGACGCCCCAGAAAGAGCTTGGATATTTGAGAAGAGCCTCGTAGCTTTTGAAG
GAGAAGGACAGTTTGAAAAATTATGCCAGGAAAGTGCCAAGCAGGCACCCACGAAAGCTGAGAAAATTAAGCTAT
TGAAACCAATTTTCAAGGAAATTGAGGGCCAGTGGGAAATGGGCATTGTTCAAGCAGAAGAAGCTGCAAGCATGT
CAGTGGAGGAGCGGAAAGCCAAGTTCACCTTTCTCTATGTGGGGACCAGCTTCATCTCAACCTCAAGTAGCCA
AGGAGGCTGGCATTGCTGCAGAGTCTTTGGGAGAAATGGCAGAATCCTCAGGAGTCAGTGAAGAAGCTGCTGAAA
ACCCCAAGTCTGTGAGAGAAGAGTGCAATCCCATGAAGAGAAGGCGGAGGGCCAAACTGTGTAGCTCTGCAGAGA
CCCTGGAGAGTCAACCCGACATAGGGAAGAGTACTCTCAAAGACGGCAGAGGCTGACCCAGAGAGGAGTAG
GGTCTCCTCCTGGGAGGAAGAAGACCACAGTCTCCATGCCACGAAGCAGGAAGGGAGATGCAGCATCCAGTTTT
TGGTCTTCTGTCAAAAACACAGGGATGAGGTGGTAGCTGAGCACCAGATGCTTCAGGTGAGGAGATTGAAGAGC
TGCTCAGGTACAGTGGAGTCTGCTGAGTGAGAAGCAGAGACGCTACAACACCAAGTTTGCCCTGGTGGCCC
CTGTCCAGGCTGAAGAAGACTCTGGTAATGTAAATGGGAAAAAAGAAACCACACAAAGAGGATACAGGACCCTA
CAGAAGATGCTGAAGCTGAGGACACACCCAGGAAAAGACTCAGGACGGACAAGCACAGTCTTCGGAAGAGAGACA
CAATCACTGACAAAACGGCCAGAACAAGCTCTTACAAGGCCATGGAGGCAGCCTCCTCGCTCAAGAGCCAGGCAG
CAACGAAAAATCTGTCTGATGCATGTAAACCACTGAAGAAGCGAAATCGGGCTTCCACGGCAGCATCTTCAGCTC
TTGGGTTTAGCAAAAGTTTCTCTCTCTGATCCTTAAGTGAAGAATGAGGTCTCGGACAGCCCGGGAGACGAGC
CCTCGGAGTCCCATACGAAAGTGCAGACGAAACACAACTGAAGTATCTGTCTCATCAAAAAGTCTGAGCGAG
GAGTGACTGCCAAAAGGAGTATGTGTGCCAGCTGTGTGAGAAGCGGGCAGCCTCCTGCTCTGTGAAGGACCCT
GCTGCGGAGCTTTCCACCTCGCCTGCCTTGGGCTTTCCCGGAGGCCAGAAGGGAGGTTACCTGCAGCGAGTGTG
CCTCAGGTGTGCCCCGGCACAGTCTGGGGTCTGTGAGGATGATGAGAGGACACCTGCACAGCCGTGGCCCTTCTCT
GCCTACTCACCGGGCCCAAGGAGTCTCCTATCTCACGTGAGAACACTTCTGGGTGAGGAAGACACCTGGAGAGT
CTCCAGGCCATGGCAGCCCCACAGCAGCACCTCACTTATGGGAGTGTCTGTCTGCCTGCCAGAAATGATAAGTG
ACTGCTCCACCACTGGCCAGCTGCTCTCAAGGAGGAAAGGCCCTCTTTTCAAGGAGCCCTTCTTTCAAGCTTCT
TGCCAGTTAGACTGGGCCTCCCCAGCCAGGCTGCCTAGTAAGATTCTCCTGTATTTTCAAGGTGAAGCTGGAGCTCA
GATCGCAGCAAGGTAATCCTTGATGGCTGGATCTTTTTGCTGGAGAATGCTTGGACTAGTGAGCAAGGTTGGAAA
CAGGGCCAGGTGCTTTAGCAGCGTGGCTGCCTCTGAAGAGGAGTTGCTTGATTTTAGTGGCTCAGAAGTGAATTT
TAATTTCTGTTCTTTGCACCTCTCTCTCCACCCCTTCTTTAACTTTTTGTTAGGGATTCACTCATGTTTCGTGTG
TAAAGAGAGCAAGACAGATGTTAAGCGCTGTGTGGTAAGTCAAGTGTGGAAAATTTTACCATGAGGCTTGTGTGAA
AAAATACCTCTGACTGTATTTGAGAGCCGAGGTTTCGCTGCCCTCCACAGCTGTGTGAGCTGCCATGCTTC
CAACCTTTCAAACCAAGGCCGTCAAAGGTAAGATGATGCGGTGTGTCCGTGCCCGGTTGCCTATCACAGCGG
GGATGCTTGTCTGGCAGCAGGATGCTCAGTGATCGCTCCAACAGCATCATCTGCACTGCCACTTCACTGCTCG
GAAGGGGAAGCGACACCACGCCACGTCAACGTGAGCTGGTGTCTCGTGTGCTCCAAAGGGGGGAGCCTTCTGTG

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FIGURE 1378B

CTGTGAGTCCTGCCCAGCGGCCTTCCACCCTGACTGCCTGAACATCGAGATGCCTGACGGCAGCTGGTTCTGCAA
TGACTGCAGGGCTGGGAAGAAGCTGCACCTCCAGGATATCATTGGGTGAACTTGGGAACACAGATGGTGGCC
GGCAGAAGTTTGCCATCCCAAAAATGTTCCCCCAAATATTCAGAAAATGAAGCACGAGATTGGAGAATTCCCTGT
GTTTTCTTTGGGTCTAAAGATTATTACTGGACGCATCAGGCGGAGTGTTCCCGTACATGGAGGGGGACCGGGG
CAGCCGCTACCAGGGGGTCAGAGGGATCGGAAGAGTCTTCAAAAACGCACTGCAAGAAGCTGAAGCTCGTTTTCG
TGAAATTAAGCTTCAGAGGGAAGCCCGAGAAACACAGGAGAGCGAGCGCAAGCCCCCACCATAACAAGCACATCAA
GGTGAATAAGCCTTACGGGAAGTCCAGATCTACACAGCGGATATTTAGAAATCCCTAAGTGCAACTGCAAGCC
CACAGATGAGAATCCTTGTGGCTTTGATTTCGGAGTGTCTGAACAGGATGCTGATGTTTGAGTGCCACCCGCAGGT
GTGTCCCGCGGGCGAGTTCTGCCAGAACCAGTGCTTACCAAGCGCCAGTACCCAGAGACCAAGATCATCAAGAC
AGATGGCAAAGGTGGGGCCTGGTCGCCAAGAGGGACATCAGAAAGGGAGAATTTGTTAACGAGTACGTTGGGGA
GCTGATCGACGAGGAGGAGTGATGGCGAGAATCAAGCACGCACACGAGAACGACATCACCCACTTCTACATGCT
CACTATAGACAAGGACCGTATAATAGACGCTGGCCCCAAAGGAAACTACTCTCGATTTATGAATCACAGCTGCCA
GCCCCACTGTGAGACCCTCAAGTGGACAGTGAATGGGGACACTCGTGTGGGCCTGTTTGCCGTCTGTGACATTCC
TGCAGGGACGGAGCTGACTTTTAACTACAACCTCGATTGTCTGGGCAATGAAAAACGGTCTGCCGGTGTGGAGC
CTCCAATTGCAGTGGATTCCCTCGGGGATAGACCAAAGACCTCGACGACCCTTTCATCAGAGGAAAAGGGCAAAAA
GACCAAGAAGAAAACGAGGCGGCGCAGAGCAAAAGGGGAAGGGAAGAGGCGAGTCAGAGGACGAGTGCTTCCGCTG
CGGTGATGGCGGGCAGCTGGTGCTGTGTGACCGCAAGTTCTGCACCAAGGCCTACCACCTGTCTGCCTGGGCCT
TGGCAAGCGGCCCTTCGGGAAGTGGGAATGTCTTGGCATCATTGTGACGTGTGTGGCAAACCTTCGACTTCATT
TTGCCACCTCTGCCCAATTTCGTTCTGTAAAGGAGCACCAGGACGGGACAGCCTTCAGCTGCACCCCGGACGGGCG
GTCCTACTGCTGTGAGCATGACTTAGGGGCGGCATCGGTGAGAAGCACCAGACTGAGAAGCCCCCCCCAGAGCC
AGGGAAGCCGAAGGGGAAGAGGCGGCGGAGGGGCTGGCGGAGAGTCACAGAGGGCAAATAGCGCCAGGCGGC
CGCTTGGCCGGATCCAGGGGCGGTGCAGGGGCGGCCCGCCCTGCCTGCGGGAGAGGGGCGAGCATGAAGTGGCCCGG
AGGACCCAGCTCGAGCCGCCAGGACACAGACGTACAGGCCTCCTCGGGAGGGAGCGCCTCCCCACCACTGAGCCA
TCCTCAGCAGCGTCCGCTGCGTCTGCACTGATGACCGTCTGAGCCCAGCTCAGCGTTCCTGGACAAACAGCCTCA
CTCCTCAGCGTTACCGCCACACTTGAATTTCTCCGAATGTCAAGTTCCCTCCCACTCTATTTTTTTTAGGTTAAA
GTTAATTGGCATATGGAATGTTTTAATCTCCTCTGAAATGTGTAGCGTAGGCTTTTCCCAAGGGTCGCTAGAAAC
TCGTCTTCGCGTTGCCCCCTTTCTGGCTCTCAGCGCCGTGCCACTCGGGAGAGGCTGGGTGAGGCCCGTGTGAG
GACTGACCCTGGATTCTCGAAACTGCCATTGTGATCATTACTCTGCTCTTTGGAAATGGCTGTATCATTTTTTT
GTACTAATGTGAATTGTTCTCAGAAACGCTTCTTTCCATCCTAGTGAGAAGCTGGCCCTGCAGGTGGTGGCAG
CAATGGTGTGTGAAGATTTCTCCCGTAGTTTTTTCTCCTCATGGATTTGAATGAAATGCCAATAACACGTCCAC
TTTCAACGTGTAGTTTACGCGGAGCACTTTTCAGAGCCTGGCCGGGTGGGCCTACTTCTCACCTGGGCCTATCTT
CTGAACTCGCTAGGTTCTTATCAACATTTGGGGGATAACTTTGTATATTTTTTTTCAATTTGGCTTTTCTTTACCAG
TTTCTGATTTTTTATTCTCAATATATTTTTGCTAAACCTATTTTCAAAATCACCACCGACTGAAGTGTGTGTTAC
TGATGCGGCCCTGAGCTCCATGGCGAAAGGAGTGACTTGCAGGGCGTGAGACCGCAGTCTGCTTAGAGCACAGG
AAGTGACAACCTAGGGAGCCCCGTAGGGCGCTGCAGGCCCCGGGGACCCAGCACGTGGGTCTAAAGAGAGACGG
AGTCTAGCTCTCTGCCACCCAGAGTGGCTTCCATCTCAGCACTCTGTGGGTCTGGTGATGGAAGATGCAGTCTC
TGCTGATCACATGTGCCCTCTGCCAGGGCACCTACTGAGAGGTGCGGTCTGGGGGTGGAGGCCTGCCTGGCAGG
TGTGCGTGCCTCGTACGTGTGTTATGGGCACTGGTCTAGGCCAGGTATGACACCCACTCTCCTGTGAGATTTTAC
TTTAGTTTTTAAAAGGTCCAGTTCTACAGAGTGAGACCTATCTATCTGAGTACTACATATGTTTTAAGACTTGGT
TCTTTTTTTGAGGGATCCTTGACCCTGGGAAGTCTGGAGCACCTGAGAAGGGGGCACCATGTGTGCCCTTTGCC
ACGTGTCCTGAGGGGCTGCTTGTCTGGGAGGGAGGGAGAGAACATTGAGCAGCAGGTGCTTTTTTTATGGCCTTTT
CTTAAATAACCTAAGGGGGACACATCCATCTTGAGAGAAGTTTACAGAAGTCCCCTTGAAACTGCTGCTGAG
GCTCCTGTTAAATTTTCTGTGGCATCTTTTATGCCCTGGTAAAAACTGCAGTGTCTTTGGACCTGAGAGTGGCTA
CTCCGTGGTTTTTGACCTGTAAGCGTGGGGTTCAGGGGTGTGTGGCCCTGCAGGGTCCCACGCCTCCCTGAGCA
CTGACTGGAAGTTTCACTGGCTGGTGGCTGTCCCTTCTCCCATCAGGGTCCCAGCAAAGTTAACTACACAGAGG
ACCCAGGGGAAACGAGCTGTGTAGCCACTGACTTGCTCGCGCGGCCGTGGCCTCTGAGGGGCACTCGCCGGTTAA
GACAGGGTGGGAGTAGTGCTTTCCAGTTCAGACTCTAATTTCTCCCAAAGTGTCTTAAGAAAATACTGGATCGGC
TCATAGATTTATGCTCCTTATGATGCCCTAATTTGGAAGGTTGTTCTAGGGACAGGCCGGGCAGTGTCACAC

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FIGURE 1378C

ACACCTTAGAGTCGAAGGCCCCAGGGCCCCGCTGTCACTTGCCCAAAAGATCCCTTCCGGCAGGTAAGGGACTAC
CAATGCTTACGTCAAAACAGCAGAATCGGCTTTGCAGTGCACTTTGGGGAGCAGATATTAAGTTATTTTTGTGTT
GGACAGTAGTGAAATCTTGTGATTTTTAATCGCTTTGATAATACTTCCAAATTTTATGATTTTTCTGAAGGAAAT
AATGCAAACATTTTAAATATGTTTCTCCCCCTTTCCAAAACTGTTAAACTAATGAGCAAGTAACACTAACTTTG
AATGTCTCTACAATACCCGTTGATAACTCAGTGGAGCCAGGCTTTGGGGTAGCGGCCCTGAGCTTGCAGGGTTTC
TCGCCACTGGGGCTGACCACGCCCCAGCTGTGACCGTGGGTGTGGCTGGCTCTCGGCCCTGCCAGCTTTGTTC
TGAGGACGTGGTGACTTCCTGAACATCAGCTTCAATCCTCCATCATTAAATGTGAAGCAAAACACAAAAACCGCCC
CAATCCCTCAGGATTCCTTGGCATCCGAAACCAGCATCTGCACCTAAACCCATACCCACCCGTGTGCGCCACAG
GGGATGTGTCCGAATGGGCAGCTTAAATGTGGTCACCTGTGGGGGAACTCTTCAGGCACCTGAAGTGAGAAC
CCAGCTGTCCGTCTCAGGCCGGCCTTTCTTCCGGCGACACCCGTCCATGGCTGGCTGGGTCCCCTTCGCAGTGT
TTGTCTGTCTTGACATCTAAACCCCGCGTGTGCAGTGCCCATCTTCCAGGACTACCTTATTTTCCAGAATTAAA
CCTGTTTTATAATTCAAGTTAATGCAAATGACTGTGAGTTGCCAAATATCTTGATCCTGTGAGTGTAGTTGATGA
CTGTTTGTAGTCAGTAGAGTAAAATGCTGTGTCCACGGGGTGTACAGCCTCACCATACCCGTGTGAGGTGTGA
AATGCCCCGTGAGAAATTAAATACAACTTAAATGTGCCTATTGGTGTCTAAACTTCATACAATGTAAGGTCAGA
TTCCTTTTAGGAATACTGGGTGCTGTCAACAGGTTTGATAGTTAGACTTAAAACTTGAAATTCACTTTTTGGGG
GGAGGGATATACTGAAATAGAGAGTTGAGACTTGCCAGTTGGGGGAAAATAGCATTTAAATGGAAAGCTGTGTT
TGGAATTTGTGATGAGTATTTTTGTATTAAAAACATTTTAAAGGCTTTTTTCTTAA

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FIGURE 1379

MEFSIKQSPLSVQSVVKCIKMKQAPEILGSANGKTPSCEVNRECSVFLSKAQLSSSLQEGVMQKFNHGDALPFIP
ADKLDLTSRVFNGEPGAHDAKLRFESQEMKGIGTPPNTTPIKNGSPEIKLKITKTYMNGKPLFESSICGDSAAD
VSQSEENGQKPENKARRNRKRSIKYDSLLEQGLVEAALVSKISSPSDKKIPAKKESCPNTGRDKDHLLKYNVVDL
VWSKVSGYPWWPCMVSAADPLLHSYTKLKGQKKSARQYHVQFFGDAPERAWIFEKSLVAFEGEGQFEKLCQESAKQ
APTKAEKIKLLKPISGKLRAQWEMGIVQAEAAASMSVEERKAKFTFLYVGDQLHLNPQVAKEAGIAAESLGEMAE
SSGVSEAAENPKSVREECIPMKRRRRRAKLCSSAETLESHPDIGKSTPQKTAEADPRRGVGSPPGRKKTTVSMPR
SRKGDAASQFLVFCQKHRDEVVAEHPDASGEEIEELLRSQWSLLSEKQRARYNTKFALVAPVQAEEDSGNVNGKK
RNHTKRIQDPTEDAEAEDTPRKRLRTDKHSLRKRDTITDKTARTSSYKAMEAASSLKSQAATKNLSDACKPLKKR
NRASTAASSALGFSSSSPSASLTENEVSDSPGDEPSESPIYESADETQTEVSVSSKKSERGVTAKEYVCQLCEK
PGSLLLCEGPCCGAFHLACLGLSRRPEGRFTCECASGVARHSLGSVRMMRGHLHSRGPSCLLTGPKESPISRQN
TSWVRKTPGESPRPWQPHSSTSLMGVSVCLPRMISDCSTTGQLLSRRKGLFS

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FIGURE 1380A

TGGTCTTGAACCTCTGACCTTGTGATCCGCTCGCCTCAGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACC
GTGCCTGTCTAGAACCACTGGTAACTCTTAACTGAGACAAGATTTGCCCAGGCTGGTCTCGAACT
TCTGAGCTCAAGCGATCTACCTGCCTCGTCTCCCAAAGTGTTGGAATTGCAGGTGTGAGCCACTGCACCCGGCC
CTTGCCTCATGTTTGAATGATAATTTACCTGGGCATAAAATTCTGGACACTTGTGGTGGCAGCAGCTGTCTGCTT
TTCTGTGGAGACTGCGGGTTGCAGACACCAGCAGCCCCCTATTGCTGCACGTGAGGTGTCTCCACCTCAGTACT
GTGGACATCTCGGGCCGCATAGCCCTGTTGCGCGGGCATCCTGTGCGTTGCAGGAGATGCAGCAGCATCCATGAC
CGCAACCCATCAGAGTGTCTAAGAACGGAAGCATCTGGGCTGGATCGAATTTAGCATCAAGCAGAGTCCCCTTT
CTGTTTCAGAGTGTGTAAAGTGCATAAAGATGAAGCAGGCACCAGAAATCCTCGGCAGTGCCAAACGGGAAGACTC
CGAGCTGCGAGGTGAACCGGAGTGTCTGTGTTCTCAGCAAAGCCCAGCTCTCCAGTAGCCTGCAGGAGGGGG
TCATGCAGAAGTTTAAACGGCCACGACGCCCTGCCCTTTATTCCAGCCGACAAGCTGAAAGATCTTACTTCCCGGG
TGTTTTAATGGAGAACCCGGCGCACAGATGCCAACTGCGTTTTGAGTCCCAGGAAATGAAAGGGATTGGGACAC
CCCCTAACACTACCCCTATCAAAAATGGCTCTCCAGAAATTAAGCTGAAAATCACCAAAACATACATGAATGGGA
AGCCTCTCTTTGAATCTTCCATTTGTGGTGACAGTGTCTGTGATGTGTCTCAGTCAGAAGAAAATGGACAAAAC
CAGAAAACAAGGCGAGAAGGAACAGGAAGAGGAGCATAAAATATGACTCCTTGCTGGAGCAGGGCCTTGTCTGAAG
CAGCTCTTGTGTCTAAGATCTCAAGTCCTTCAGATAAAAAGATTCCAGCTAAGAAAGAGTCTTGTCCAAACACTG
GAAGAGACAAAGACCACCTGTTGAAATACAACGTTGGTGATTGGTGTGGTCCAAAGTGTGCGGTTACCCCTGGT
GGCCTTGCTATGGTTTCTGCAGATCCACTCCTTCACAGCTATACCAAACCTTAAAGGTGAGAAAAGAGTGCACGCC
AGTATCACGTACAGTTCTTTGGTGACGCCCCAGAAAGAGCTTGGATATTTGAGAAGAGCCTCGTAGCTTTTGAAG
GAGAAGGACAGTTTGA AAAAATATGCCAGGAAAGTGCCAAGCAGGCACCCACGAAAGCTGAGAAAATTAAGCTAT
TGAAACCAATTTAGGGGAAATGAGGGCCCCAGTGGGAAATGGGCATTGTTCAAGCAGAAGAAGCTGCAAGCATGT
CAGTGGAGGAGCGGAAAGCCAAGTTCACCTTTCTCTATGTGGGGGACAGCTTCATCTCAACCTCAAGTAGCCA
AGGAGGCTGGCATTGCTGCAGAGTCTTTGGGAGAAATGGCAGAATCCTCAGGAGTCAGTGAAGAAGCTGCTGAAA
ACCCCAAGTCTGTGAGAGAAGAGTGCATTCCCATGAAGAGAAGGCGGAGGGCCAACTGTGTAGCTCTGCAGAGA
CCCTGGAGAGTCACCCCGACATAGGGAAAGAGTACTCCTCAAAGACGGCAGAGGCTGACCCCAAGAGGAGTAG
GGTCTCCTCCTGGGAGGAAGAAGACCACAGTCTCCATGCCACGAAGCAGGAAGGGAGATGCAGCATCCAGTTTTT
TGGTCTTCTGTCAAAAACACAGGGATGAGGTGGTAGCTGAGCACCAGATGCTTCAGGTGAGGAGATTGAAGAGC
TGCTCAGGTCACAGTGGAGTCTGCTGAGTGAGAAGCAGAGAGCAGCTACAACACCAAGTTTGCCTGGTGGCCC
CTGTCCAGGCTGAAGAAGACTCTGGTAATGTAAATGGGAAAAAAGAAACCACACAAAGAGGATACAGGACCCTA
CAGAAGATGCTGAAGCTGAGGACACACCCAGGAAAAGACTCAGGACGGACAAGCACAGTCTTCGGAAGAGAGACA
CAATCACTGACAAAACGGCCAGAACAAGCTCTTACAAGGCCATGGAGGCAGCCTCCTCGCTCAAGAGCCAGGCAG
CAACGAAAAATCTGTCTGATGCATGTAAACCACTGAAGAAGCGAAATCGGGCTTCCACGGCAGCATCTTCAGCTC
TTGGGTTTAGCAAAAGTTTCTCTCCTTCTGCATCCTTAAGTGAAGATGAGCTTTTGTGGGAGCCACACCAGTCA
AGTTGGATTTGAACCCAGCTGCTCTGTACTGCACCTAGAAATGATGTAATATTCCAGGATGCTGCTGCAGGTGGCG
TATCATCGTACACACTCAGTGACATTTCTATACAATCATTTTATGGAAGATGTGTGATAATCTGTTTTTACTGG
TATTAATAAACACATACAATGAAGAAAACAGATAACAAATTTTAAAGACCAAGGTCTCGGACAGCCCGGGAGACGA
GCCCTCGGAGTCCCATACGAAAGTGCAGACGAAACACAACTGAAGTATCTGTCTCATCCAAAAGTCTGAGCG
AGGAGTGAAGTCCAAAAGGAGTATGTGTGCCAGCTGTGTGAGAAGCCGGGCAGCCTCCTGCTCTGTGAAGGACC
CTGCTGCGGAGCTTTCCACCTCGCTGCCTTGGGCTTTCCCGGAGGCCAGAAGGGAGGTTACCTGCAGCGAGTG
TGCTCAGGGATTCACTCATGTTTCTGTGTGTAAGAGAGCAAGACAGATGTTAAGCGCTGTGTGGTAAGTCAAGT
TGGAAAATTTTACCATGAGGCTTGTGTGAAAAAATACCCTCTGACTGTATTGAGAGCCGAGGTTTCCGCTGCCC
CCTCCACAGCTGTGTGAGCTGCCATGCTTCCAACCTTCAAACCCAAAGCCGTCAAAGGTAAATGATGCGGTG
TGTCCGCTGCCCCGTTGCCTATCACAGCGGGGATGCTTGTCTGGCAGCAGGATGCTCAGTGATCGCCTCCAACAG
CATCATCTGCACTGCCCACTTCACTGCTCGGAAGGGGAAGCGACACCACGCCCACGTCAACGTGAGCTGGTGTCT
CGTGTGCTCCAAAGGGGGGAGCCTTCTGTGCTGTGAGTCTGCCCAGCGGCTTCCACCTGACTGCCTGAACAT
CGAGATGCCTGACGGCAGCTGGTTCTGCAATGACTGCAGGGCTGGGAAGAAGCTGCACTTCCAGGATATCATTG
GGTGAACTTGGGAACTACAGATGGTGGCCGGCAGAAGTTTGGCATCCCAAAAATGTTCCCCCAAATATTAGAA
AATGAAGCAGGAGATTGGAGAATTCCCTGTGTTTTTCTTTGGGTCTAAAGATTATTACTGGACGCATCAGGCGCG
AGTGTTCCTGTACATGGAGGGGGACCGGGGCAGCCGTACCAGGGGTGAGAGGATCGGAAGAGTCTTCAAAAA

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FIGURE 1380B

CGCACTGCAAGAAGCTGAAGCTCGTTTTTCGTGAAATTAAGCTTCAGAGGGAAGCCCGAGAAACACAGGAGAGCGA
GCGCAAGCCCCACCATAACAAGCACATCAAGGTGAATAAGCCTTACGGGAAAGTCCAGATCTACACAGCGGATAT
TTCAGAAATCCCTAAGTGCAACTGCAAGCCACAGATGAGAATCCTTGTGGCTTTGATTCCGGAGTGTCTGAACAG
GATGCTGATGTTTGAGTGCCACCCGCAGGTGTGTCCCGCGGGCAGTTCCTGCCAGAACCAGTGCTTCACCAAGCG
CCAGTACCCAGAGACCAAGATCATCAAGACAGATGGCAAAGGGTGGGGCCTGGTCGCCAAGAGGGGACATCAGAAA
GGGAGAATTTGTTAACGAGTACGTTGGGGAGCTGATCGACGAGGAGGAGTGTCATGGCGAGAATCAAGCACGCACA
CGAGAACGACATCACCCACTTCTACATGCTCACTATAGACAAGGACCGTATAATAGACGCTGGCCCCAAAGGAAA
CTACTCTCGATTTATGAATCACAGCTGCCAGCCCAACTGTGAGACCCTCAAGTGGACAGTGAATGGGGACACTCG
TGTGGGCCTGTTTGCCGTCTGTGACATTCTGCAGGGACGGAGCTGACTTTTAACTACAACCTCGATTGTCTGGG
CAATGAAAAACGGTCTGCCGGTGTGGAGCCTCCAATTGCAGTGGATTCTCGGGGATAGACCAAAGACCTCGAC
GACCCTTTCATCAGAGGAAAAGGGCAAAAAGACCAAGAAGAAAACGAGGCGGCGCAGAGCAAAAAGGGGAAGGGAA
GAGGCAGTCAGAGGACGAGTGCTTCCGCTGCCGTGATGGCGGGCAGCTGGTGCTGTGTGACCGCAAGTCTGTCAC
CAAGGCCTACCACCTGTCCTGCCGTGGGCCTTGGCAAGCGGCCCTTCGGGAAGTGGGAATGTCCTTGGCATCATTG
TGACGTGTGTGGCAAACCTTCGACTTCATTTTGCCACCTCTGCCCCAATTCGTTCTGTAAGGAGCACCAGGACGG
GACAGCCTTCAGCTGCACCCCGGACGGGCGGTCTACTGCTGTGAGCATGACTTAGGGGCGGCATCGGTGAGAAG
CACCAAGACTGAGAAGCCCCCCCCAGAGCCAGGGAAGCCGAAGGGGAAGAGGCGGCGGCGGAGGGGCTGGCGGAG
AGTCACAGAGGGCAAATAGCGCCAGGCGGCCGCTTGGCCGGATCCAGGGGCGGTGCAGGGCGGCCGCCCTGCCT
GCGGGAGAGGGCGAGCATGAACTGGCCCGGAGGACCCAGCTCGAGCCGCCAGGACACAGACGTACAGGCCTCCTC
GGGAGGGAGCGCCTCCCCACCACTGAGCCATCCTCAGCAGCGTCCGCTGCGTCTGCACTGATGACCGTCTGAGCC
CAGCTCAGCGTTCTTGACAAACAGCCTCACTCCTCAGCGTTACCGCCACACTTGAATTTCTCCGAATGTCAAGG
TTCCCTCCCCTCTATTTTTTTAGCTTAAAGTTAATTGGCATATGGAATGTTTTAATCTCCTCTGAAATGTGTAG
CGTAGGCTTTTCCCAAGGGTCGCTAGAACTCGTCTTCGCGTTGCCCTTTCTGGCTCTCAGCGCCGTCGCCAC
TCGGGAGAGGCTGGGTGAGGCCCCGTGTGAGGACTGACCCTGGATTCTCGAAACTGCCATTGTGATCATTACTCT
GCTCTTTGGAATGGCTGTATCATTTTTTTGTACTAATGTGAATTGTTCTCAGAAACGCTTCTTTTCCATCCTA
GTGAGAAGCTGGCCCTGCAGGTGGTGGCAGCAATGGTGTGTGAAGATTTCTCCCGTAGTTTTTTCTCCTCATGG
ATTTGAATGAAATGCCAATAACACGTCCACTTTCAACGTGTAGTTTACGCGGAGCACTTTTCGAGGCCTGGCCGG
TTGGGCCTACTTCTCACCTGGGCCTATCTTCTGAACCTCGCTAGGTTCTTATCAACATTTGGGGGATAACTTTGTA
TATTTTTTTTCAATTTGGCTTTTCTTTTACCAGTTTCTGATTTTTTATTCTCAATATATTTTTGCTAAACCTATTTAC
AAATCACCACCGACTGAAGTGTGTGTTTACTGATGCGGCCCTGAGCTCCATGGCGAAAGGAGTGACTTTGCAGGG
CGTGAGACCGCAGTCTGCTTAGAGCACAGGAAGTGACAACCTAGGGAGCCCCGTAGGGCGCTGCAGGCCCCGGGG
ACCCACAGCAGTGGGTCTAAAGAGAGACGGAGTCTAGCTCTCCTGCCACCCAGAGTGGCTTCCATCTCAGCACTC
TGTGGGTCTGGTGATGGAAGATGCAGTCTCTGCTGATCACATGTGCCCTCTGCCAGGGCACCTACTGAGAGGTGC
GGTCTTGGGGGTGGAGGCCTGCCTGGCAGGTGTGCGTGCCTCGTACGTGTGTTATGGGCACTGGTCTAGGCCAGG
TATGACACCCACTCTCCTGTGAGATTTCACTTTAGTTTTTAAAGGTCCAGTCTACAGAGTGAGACCTATCTAT
CTGAGTACTACATATGTTTTAAGACTTGTTCTTTTTTTGAGGGATCCTTGACCCTGGGAAGTCTGGAGCACCCCT
GAGAAGGGGGCACCATGTGTGCCTTTGCCACGTGTCCTGAGGGGCTGCTTGTCTGGGAGGGAGGGAGAGAACAT
TCAGCAGCAGGTGCTTTTTTATGGCCTTTTCTTAAATAACCTAAGGGGGACACATCCATCTTGAGAGAAGTTT
ACAGAACTCCCCTTGAAACTGCTGCTGAGGCTCCTGTAAATTTTTCTGTGGCATCTTTTTATGCCTTGGTAAAAA
CTGCAGTGTCTTTGGACCTGAGAGTGGCTACTCCGTGGTTTTGTGACCTGTAAGCGTGGGGTTTCAGGGGTGTGTG
GCCCTGCAGGGTCCCACGCCTCCCTGAGCACTGACTGGAAGTTTCACTGGCTGGTGGCTGTCCCTTCTCCCATCA
GGGTCCCCAGCAAAGTTAACTACACAGAGGACCCAGGGGAAACGAGCTGTGTAGCCACTGACTTGCTCGCGCGGC
CGTGGCCTCTGAGGGGCACTCGCCGGTTAAGACAGGGTGGGAGTAGTGCTTCCAGTTCAGACTCTAACTTCTCC
CAAAGTGTCTTAAGAAAATACTGGATCGGCTCATAGATTTATGCTCCTTATGATGCCCTAACTTGAAGGTTGTT
CTAGGGACAGGCCGGGAGTGTCCCCACACACACCTTAGAGTCGAAGGCCCCAGGGCCCCGCTGTCACTTGCCCCA
AAAGATCCCTTCCGGCAGGTAAGGGACTACCAATGCTTACGTCAAAACAGCAGAATCGGCTTTGCAGTGCATTT
GGGGAGCAGATATTAACCTATTTTTTGTGTTGGACAGTAGTGAAATCTTGTGATTTTTTAATCGCTTTGATAATACT
TCCAAATTTTATGATTTTTTCTGAAGGAAATAATGCAAACATTTAAATATGTTTCTCCCCCTTCCAAAACTGT
TAACTAATGAGCAAGTAACACTAATTTGAATGTCTCTACAATACCCGTTGATAACTCAGTGGAGCCAGGCTTT

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FIGURE 1380C

GGGGTAGCGGCCCTGAGCTTGCAGGGTTTCTCGCCACTGGGGCTGACCACGCCCCCAGCTGTGACCGTGGGTGTG
GCTGGCTCTCGGCCCTGCCCAGCTTTGTTCTGAGGACGTGGTGACTTCCTGAACATCAGCTTCAATCCTCCATCA
TTAATGTGAAGCAAAACACAAAACCGCCCCAATCCCTCAGGATTCTTGGCATCCGAAACCAGCATCTGCACCT
AAACCCATACCCACCCGTGTGCGCCACAGGGGGATGTGTCCGAATGGGCAGCTTAAAAATGTGGTCACCTGTGGG
GGAAACTCTTCAGGCACCTGAAGTGAGAACCCAGCTGTCCGTCCCTCAGGCCGGCCTTTCTTCCGGCGACACCCGT
CCATGGCTGGCTGGGTCCCCTTCGCAGTGTTTGTCTGTCTTGACATCTAAACCCCGCGTGTGCAGTGCCCATCT
TCCAGGACTACCTTATTTTCCAGAATTAAACCTGTTTTATAATTCAAGTTAATGCAAAATGACTGTCAGTTGCCAA
ATATCTTGATCCTGTGAGTGTAGTTGATGACTGTTTGTAGTCAGTAGAGTAAATGCTGTGTCCACGGGGTGTG
ACAGCCTCACCATAACCTGTTGAGGTGTGAAATGCCCCGTCAGAAATTAAATACAACTTAAATGTGCCTATTGG
TGTCTAAACTTCATACAATGTAAGGTGAGATTCTTTTAGGAATACTGGGTGCTGTCACCAGGTTTGATAGTTAG
ACTTAAAACTTGAAATTCACTTTTTGGGGGGAGGGATATACTGAAATAGAGAGTTGAGACTTGCCAGTTGGGGG
AAAATAGCATTTAAATGGAAAGCTGTGTTTGGAAAATTGTGTATGAGTATTTTGTATTAAAAACATTTTAAAG
GCTTTTTTCTTAA

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FIGURE 1381

MEFSIKQSPLSVQSVVKCIKMKQAPEILGSANGKTPSCEVNRECSVFLSKAQLSSSLQEGVMQKFNGHDALPFIP
ADKLDLTSRVFNGEPGAHDALRFESQEMKGIGTPNNTTPIKNGSPEIKLKITKTYMNGKPLFESSICGDSAAD
VSQSEENGQKPENKARRNRKRSIKYDSLLEQGLVEAALVSKISSPSDKKIPAKKESCPNTGRDKDHLLKYNVGD
VWSKVSGYPWWPCMVSAADPLLHSYTKLKGQKKSARQYHVQFFGDAPERAWIFEKSLVAFEGEGQFEKLCQESAKQ
APTKAEKIKLLKPI SGKLRAQWEMGIVQAEAAASMSVEERKAKFTFLYVGDQLHLNPPQAKEAGIAAESLGEMAE
SSGVSEEAENPKSVREECIPMKRRRRRAKLCSSAETLESHPDIGKSTPQKTAEADPRRGVGSPPGRKKT TVSMR
SRKGDAASQFLVFCQKHRDEVVAEHPDASGEEIEELLRSQWSLLSEKQRARYNTKFALVAPVQAEEDSGNVNGKK
RNHTKRIQDPTEDAEAEADTPRKRLRTDKHSLRKRDTITDKTARTSSYKAMEAASSLKSQAATKNLSDACKPLKKR
NRSTAASSALGFSKSSSPSASLTENELLWEPTPVKLDLNPAAALYCT

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FIGURE 1382

TAGCGAGGGACGCGTAGGTGTCTTCATAAGATGCCGGGGCAGCGGCGCGCTTTCCCCCAAGATGGCGTCCATG
CGGGAGAGCGACACGGGCTGTGGCTGCACAACAAGCTGGGGGCCACGGACGAGCTGTGGGCGCCGCCAGCATC
GCGTCCCTGCTCACGGCCGCGGTTCATCGACAACATCCGTCTCTGCTTCCATGGCCTCTCGTCGGCAGTGAAGCTC
AAGTTGCTACTCGGGACGCTGCACCTCCCGCGCCGACGGTGGACGAGATGAAGGGCGCCCTAATGGAGATCATC
CAGCTCGCCAGCCTCGACTCGGACCCCTGGGTGCTCATGGTCGCCGACATCTTGAAGTCCTTTCCGGACACAGGC
TCGCTTAACCTGGAGCTGGAGGAGCAGAATCCCAACGTTTCAAGATATTTTGGGAGAACTTAGAGAAAAGGTGGGT
GAGTGTGAAGCGTCTGCCATGCTGCCACTGGAGTGCCAGTACTTGAACAAAAACGCCCTGACGACCCTCGCGGGA
CCCCTCACTCCCCCGGTGAAGCATTTTCAGTTAAAGCGGAAACCCAAGAGCGCCACGCTGCGGGCGGAGCTGCTG
CAGAAGTCCACGGAGACCGCCAGCAGTTGAAGCGGAGCGCCGGGGTGCCCTTCCACGCCAAGGGCCGGGGGCTG
CTGCGGAAGATGGACACCACCACCCACTCAAAGGCATCCCGAAGCAGGCGCCCTTCAAGCCCCACGGCGCCC
AGCGTCTTCAGCCCCACAGGGAACCGGACCCCCATCCCGCCTTCCAGGACGCTGCTGCGGAAGGAACGAGGTGTG
AAGCTGCTGGACATCTCTGAGCTGGATATGGTTGGCGCTGGCCGAGAGGCGAAGCGGAGAAGGAAGACTCTCGAT
GCGGAGGTGGTGGAGAAGCCGGCCAAGGAGGAAACGGTGGTGGAGAACGCCACCCCGGACTACGCAGCCGGCCTG
GTGTCCACGCAGAACTTGGGTCCCTGAACAATGAGCCTGCGCTGCCCTCCACGAGCTACCTTCCCTCCACGCCC
AGCGTGGTTCCCGCCTCCTCCTACATCCCCAGCTCCGAGACGCCCCCAGCCCCATCTTCCCGGGAAGCCAGCCGC
CCACCAGAGGAGCCCAGCGCCCCGAGCCCCACGTTGCCAGCGCAGTTCAAGCAGCGGGCGCCCATGTACAACAGC
GGCCTGAGCCCTGCCACACCCACGCCTGCGGCGCCCCACCTCGCCTCTGACACCCACCACACCTCCGGCTGTGCCC
CCTACCACTCAGACACCCCCGGTTGCCATGGTGGCCCCGAGACCCAGGCCCTGCTCAGCAGCAGCCTAAGAAG
AACCTGTCCCTCACGAGAGAGCAGATGTTGCTGCCCAGGAGATGTTCAAGACGGCCAACAAAGTCACGCGGCCC
GAGAAGGCCCTCATCCTGGGCTTCATGGCCGGCTCCCGAGAGAACCCGTGCCAGGAGCAGGGGGACGTGATCCAG
ATCAAGCTGAGCGAGCACACGGAGGACCTGCCCCAAGGCGGACGGCCAGGGTAGCACAACCATGCTGGTGGACACA
GTGTTTGAGATGAACATATGCCACGGGCCAGTGGACGCGCTTCAAGAAGTACAAGCCCATGACCAATGTGTCCTAG

AACCACCTGCCTCACAGCTGGCCGTCACCTTGTGGGGGTCCACGGGACGATGGCTTTGCCAGCTTAAAGTAACCGG
ATGGCGGACACCTGGCCCCCGAGGTCCCCCGGCCGCCGCCCTGCTGCTGACCCAGCCTGTTTTAAGTTCTGGATG
CATTTCTCTGGGGTATTTGGGGCTTATTTTTAAATTTTAAATATGGGTTCTTTTTTGTGTGATTTAAAGACACTT
TTTGGACTCAACGTTACATTTTTGAATGTAGTAAGTAAATTAACCAAAAAAGTTACAACCTCCTAATTTTAGTGA
CAGCTCTGCCTGTTTGTAGACTCTTACTTTTTAAATCTTTTCTATTTTCCCTCGCTGGGGCAGTGCCCTCCTA
CCCCCAGGGTTGAGGGGACCAAGGTGGCACGGTGGTACTGGGGGTGCGGCAGGGACACCCGACCACACCAGAGCG
TGGGAGACGGTGGGCCTTGTCCCCTGCCTGTGCCTGCCTGGGAGTTTTGTATTCTATCTTTGTATAGTTGTGGAC
ATTTAAGACAGTCTTTGGGTACCTATTTTCATTGTAAACTATCTGAACCATTAAGTCGAGCTTTTCTAAAGAA
AAAAAAAAAAAA

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FIGURE 1383

MASMRESDTGLWLHNKLGATDELWAPPSIASLLTAAVIDNIRLCFHGLSSAVKLLKLLLGTLHLPRRTVDEMKGAL
MEIIQLASLDSDPWVLMVADILKSFPDTGSLNLELEEQNPVQDILGELREKVGECEASAMLPLECQYLNKNALT
TLAGPLTPPVKHFQLKRKPKSATLRAELLQKSTETAQQLKRSAGVPFHAKGRGLLRKMDTTTFLKGIPKQAPFRS
PTAPSVFSPTGNRTPIPPSRTLLRKERGVKLLDISELDMVGAGREAKRRRKTLDAEVVEKPAKEETVVENATPDY
AAGLVSTQKLGSNNPALPSTSYLPSTPSVVPASSYIPSETPPAPSSREASRPPEEPSAPSPTLPAQFKQRAP
MYNSGLSPATPTPAAPTSP LPTPTPPAVAPTTQTPPVAMVAPQTQAPAQQQPKKNLSLTREQMFAAQEMFKTANK
VTRPEKALILGF MAGSRENPCQE QGDVIQIKLSEHTEDLPKADGQGSTTMLVDTVFEMNYATGQWTRFKKYPMT
NVS

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FIGURE 1384A

TCCCAGCCTGAAACCAACACATTTTCTAATAAGTTATTTAGACAGAATAGCACTCTGCATGACTTTAATTCTTGG
GACAAAACGGTAGTTTGTACCCTAAGACACAGTTTCTGGCCCAGTGTGATGGGGGTGGGTGGCCGGGTGGGTGGA
GCGTTTTTGTGTTGGAAACCTGGAGGGAAACCCTGATTGGATGTCAATTCCTGCCATGGAGCACGCCTCCCAGCC
CTGGCCTGCAGGGTGGGCAGGGTGGGGGGCAAGGGAGTCCGCAGCCTCCGGGAGGAGGGGCAGGGCGCTGCCTTG
GGCTGGGTGGGAAGAGGGGTGGCCGCCTCGGCTTCCGCTGGCCATGCTCCTGGTCTCTCCTTCCCTGAGGTCACAG
GCAGGGGCTGCCCTGGACGGGGGGCGGGGGGGTGGCCTGGAAGGGGAGACAGAGGTGGAGGGTGGCACAGGGCTG
CACATTCAGCTTAGAAGTGGACCTGGCTTTGGTGGCAGGAGAAGAATAAACACTTGGCCAGACCCCTTTGTGTGG
GGGAATTGGGGAGGGGTCGTGGCAGGCAGGGTGGGCCACGGAAGTGGGTCCCAGGCATCAAGGCCACGTGCAGGG
CCATGGAGGGATGCTTCTCACGAGGCGCTTCAGAAGCGAGCGAAGGGACAGAGAAGCCCTGCGTCCAAGGGCCTT
TTGTCTCTGTTAGCAATTGAGGTGTGCAGAGCACTGTACAGACCCCACTCCCCTGTACATTCCTCCCTGGAGGTGC
CCGGTCCCCGCTTGGGGATGGGAGTTTTGTAGACTGTACAGAAATCGGCACCCTATTTTCTTGCAGCTCAGATTT
TGTTAATCTGGAATATACAGACAGACGTAAAGTGTTTTAGCAAAATGGAACAAACAGTTGTGCCTTTTTCTCTCT
TTTGGTTTGGTTTGGGTTTGGCCTGGGGCTGGTCCCAGTTGGTGCAGGGGCATGCTGGGGGCAGGAGGGGCAGGGC
GGGCCAGGTGGAGTCAGGTCTTGGGGGTGTCAITGTCGGGGTGTCTGCCAGCGTCCCTTGGTCTGTGCCTTTGGAG
CCTCGGGCTCCTGGGGTGCAGGGTGTCTGGGGGTGGCTGTTGGAGCCCACCGACGCCAGGGCAGGGCCTGGAGGC
CCAGGGACTGCCAGTGTCTCCTTGATATTGATCCTAGCAGATCCCCCTCCTGGGGGTCTGTAGAGTCTGGGCAG
TGTGGCCTTCTCTCATTCCTGGTGGCATCTGCGCCCGTGAGTGACCTCTTCTTGGCTGCAGTGCCTGTGGGTGG
TGAGACGCTTGGCCTTTTTTGTGCTGCCAGGACTTGGTAGAGATGGCAGGAAGGGTGTGCGGGGTGGTTGTGTG
CAGAACCCTGCCGCCCCCTGAGGTGAGCAGAGGCAGTGGTGTGCTGCCAGGCTGGGGCGGAGCTGCCCGGAACCCT
TGCCAGGCCAATGTGTAGCTTGGTGGCGCCCTTGAAGGCCACTGGGGGGTAGGTGTGTCTCCCCCGGGGCTGGA
GGCCGGGTGCCTGGTGGGTGGGCCTGACCTGGCCACCTCATCCCTCCAGCCTGGGATCTCACTGCTCTGCACCT
GTGCACTGACGTGAATTTTATACGTTTGTAGAACTCTGATGTAACCTCTTCTACCTCTGAAGCGCCCTCCTGGG
CCTGCTGTACAGTGGCTGGTGCAGCTTCCCCGAGTGTGCGCCCTGCCGCTCCCCATGGGCACCCACCACTC
AAACTCTGCGTGTGTAGGCCCCGGGAAAGCCAGGCCGGGGCCCTAGCACTGCTCAGGGGCCTGGGGCTCCTGGGAT
TTCTGTGTGTTTGAAGCCTCTGTTTTTGGAGTGGGGGGCGTGAAGCGGGAGGGGCTGACAGTGCCTGGGGCC
AGAGCTGGGCGAAGGAGGACATCCTCACTGGACGAGCACTGCAGGCCTGACGAGAGGCTCCGGGCAGCTGAGGGC
TGAAGCGCCTCGGGATGCCCCACACTGCCAGAGCCACGGGTCTTGCTGTGCTGGGGGTGGGGTGGCCCCAGGCA
GCTGCCACTGCCAGGTGTGAGTCGCTGCAGACCTGGTCCCTGAGGGTGGGAGGCCTGCTTGTGCTGAAGCTGCC
ATGTGGTCTGGCCCCAGAAGGGCTCCTGAGCGTAGGGAGTTAGCCCCGAGCCGTGGCGGCATCTCCTCCTCC
TTCCTCCGCCCCATGCCAGCCTTGCTTCCGGCTGGTGGCATGCCTTGGGGCCGGGCAGCAGGTGAGAAGCTGCC
CCCGGAGGGAGGGGGCCAAGGGCTGGGTGAGTCTGGCCTGAGGGGTGGATGGCTGGCCCTGGGGGAAGGTGGGC
TGGGAGGCCCTGTGGACAGCAGGCCTGAGGCCACGAGGTCTGGGGCCACCCCTCTCCTGCTCTGGGTGTCTTC
TCAGAGAAGATGGCAGAAGGCTGCAGGCCCTAGAGGGGACGACGGGCTGGGGACGCCCTGAGCTTCTGGCTGTG
TGGCAGGTGCTGGGGAAGCTCTCTGGGCCATAGGGACCTGGCTCCCCTCTGAGAGGCCCCGCTGCCCTGGGACAC
CCAGGGCTGTGCTGGTGGCCTGAGGCTGGGAAGTGGGTTCCTGGGCTCTGCTGGCGCCTGGGCTTTGTGGGGGC
CGAAGGTGGTTGCCCCGCGGGCAGGGGGCTGTGTGGGCCCTCGTGGGGCCACCTTCTGTGAGTGCCTGAGGGA
CGGTGGGACAGTTGCCCTGCGCCAAGGGAGCCCACTGCCATCCCCGTTGGGCTGGCGCTGAGTGCCTGAGGGA
GTGTTGCCCTGCTGACTTGCTTATGTCTGTTTTGGAAGCTGCTTCTGTTTGGCCACAGGCCTGTGTTCTGGGCTGA
TGGCCACAGAGCTGACACTTGGGGTTTGAAGTCCAGACTTGACAGACCTGGGATCCGCTTACTCCTCCGCGCCAC
GGCTGCTGTGCTTCCAGAGGTGGCGTGATGCCCTCCCGGGGCCACGGTGGGGTGAAGGATGGCGAGCCGGACATAC
CATTTGTTGGATGTATTTTTTTTTAAACAGCAATAATTAGCCATTTTAAAGGAGGGATGTACCTGTGTGTGTGCAT
GTGCACGTGTTTGAAGTGTGTGTGTGTGTGCAAGTGGGTCTTGGATATGTGTAGTGTGAGCATGTGTGCATGT
GTGAGCCTGTGCACGTGCATGTTGTAGGTGCATAAGCATGTACACGCTGAGCATGCATGTGCGTGTACACGTGT
ATAGGTGTACATGTGCATGAGTTGTGTACATGCGTGAGCAGTGTATAGATGTACGTGTGTGTGCGCATGTGTGC
GTGTACATGTGTTTGTGTCTTGGGTATGCATAAGCATGCAGTGTGTATGAATGTGCGTGTGTATGCATGAGCAC
GTATGCATGTGTGATGCGCATGTTCTTGTGTACTTCTCTGAGGGGGCACATATGTATGAGTGTATGAGTGCATAC
ATATGCATATGGTGTACGTGTGTGTACTTTGTGTGTGGGCATGTATGCGTATGAGTACTTGTGTGTGGCTGGTGT
ATGGGTGAGCATGCACATGTGTATGGATGCATATGTGAGCTGTACATGTAGAGTGTACATGTGTGTTGCATGAGC

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FIGURE 1384B

ATGCATGCGTGCGAGTGCCTGTGTGTGTACTTGCATATATGTGGCTGTGCAGGTACCCGGCGGTGGTGGGCTGGC
AGTGCCCCGGGGAAGCAGGTCCTGCTCACGGCTTCCCTGCTGGGCCCCAGGCCCCGGGCTGAGCCTCCCTGGCCCC
TCTTGCCCCCTCAGTGGAGCAGGGCCTGGGTGGAGGGCCTGGGCAGCTCCAGGGCAGGTCCGGGGAGGCCAGGCTT
GGGGAGCACAGGGGGTGGGGTTACCTGCTGCTGTTTGTTCGAACTGTACTGTGAGCCACGGCGGGGGCAG
ATTGTTCTGAGGCCCCAGATGTGCCAAAACAGCCCCAGGGTGGGGGCGAGCGAGTTCTGAGGAGAGGGGCTGCG
GGGGCCGGGGGTGGGTGTGTGCCCCCTCCCCTGAATGGCCCCCAATGCTGCTGTTTTTCAATAAAACCAGAGTTGA
AGGC

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FIGURE 1385

MSMHACECLCVYLHICGCAGTRRWAGSARGSRSCSRLPCWAPGPGLSLPGPSCPSVEQGLGGGPGQLQGRSGEA
RLGEHRGWGSPAAVCSRNCTVSPRRGQIVLRPQMCONSPQGGGERVLRGAAGAGGGCVPLP

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FIGURE 1386

GAGGAGCTCTCCTGGGCGGCTGAAGAAGGAGCTTCTTCTCCGGAGTGCGAAGGCGGTGGCGCCTGCGGACCTAAC
TAGCTCCAGGTTAGGCCGAGCTTTGCGGGAAAGCAGCGGACTTGAAAATACTGGAAATCTGTCCGGATCCAAATT
ATTTTGCAAGCCAGATGAGTAACCAGAGGGCATGAAAGGTTGAGAACATTTGACTTCCCTGCAAACTTGGTATA
GATCATTCTCTTTCTGTAGGAAAGGAAAGGCACCAAAGAGCACAAATGAGTACAAGAAAGCGTCGTGGTGGAGCA
ATAAATTCTAGACAAGCTCAGAAGCGAACTCGGGAAGCAACCTCCACCCCGAGATCTCCTTGGAAAGCAGAACCC
ATAGAACTCGTGGAAACTGCTGGAGATGAAATTGTGGACCTCACTTGTGAATCTTTAGAGCCTGTGGTGGTTGAT
CTGACTCACAAATGACTCTGTTGTGATTGTTGACGAAAGAAGAAGACCAAGGAGGAATGCTAGGAGGCTGCCCCAG
GACCATGCTGACAGCTGTGTGGTGAGCAGTGACGATGAGGAGTTGTCCAGGGACAGAGACGTATATGTGACTACC
CATACTCCCAGAAACGCCAGGGATGAGGGCGCTACAGGCCTCAGGCCCTCAGGTACTGTGAGTTGTCCCATCTGC
ATGGACGGATACTCAGAGATCGTGCAGAAATGGACGCTCATCGTTTTCCACAGAATGCGGCCATGTCTTCTGTAGC
CAGTGCCTCCGTGATTCCCTGAAGAATGCTAATACTTGCCCAACTTGTAGGAAAAAGATCAACCACAAACGGTAC
CACCCCATTTATATATGAAAGTATTGAGAGCCCCCAGGAGAGACGGATGGACAGACAGACAGCCAGGTTCTCCAG
TGGTATCTGCCTCCATTTTCTGAGATCAAAAAGACTGTTTCGAAACCAACATCTGATATGTAAACTGCTCTTTT
GTTTCCAACCCCTTCTTTTGTATCTCCAGTTTGATGCTATGGCGCTGGACCCAGGGCCCTCCAGGCCATCTC
TGTTCTCTGGGGTGGTCCAGTTCTAGAGTGGGAGAAAGGGAGTCAGGCGCATTGGGAATCGTGGTTCAGTCTG
GTTGCAGAACTGACATTTGCCAAGAAATTTCCCTGTTTGGAAAGTTTGGCCAGCTTTCCCGGCACACCAC
CTTTTGTCCCAAGTGTCTGCCGTCGACCAATCTGCCTGCCACACATTGACCAAGCCAGACCCGGTTCACCCAGC
TCGAGGATCCCAGGTTGAAGAGTGGCCCTTGAGGCCCTGAAAGACCAATCACTGGACTTCTTCCCTTGAGAGT
CAGAGGTACCCGTGATTCTGCCTGCACCTTATCATTGATCTGCAGTGATTTCTGCAAATCAAGAGAACTCTGC
AGGGCACTCCCCTGTTTCTTAAGAACGAAAAAGTGCAATAAAGGCCATTTCGTTACCTACTTTTACAGAGCCACA
AGATGTAGCACTATTAGTGTCCCCCTCAGAGGCTTAATGTTGCCTGTGGAGCAGTGCCCATCCAGCCGTTTCT
GCCCACAGTTGTTTCTCAGGAACCTTACCCATGCTCCAGCGTCTTACCTGGCACAGGACATGCAAGATAAATA
GGGCAGGCACGTGTTTGGGTGTCTCTCTTTTCTGATAAAATCCATCCCGTGTGTTGCCACACGCCCTCCAGTCCT
CAGTTCCCACTGCCTAACGTCTGCCCCCGTGTAGATACTGAGAGGTGGTGGCAGTAATTGTGGCCTTATCAGCCG
CTCAGTTCCAGGCTTTTGGCCAGGTCAGTGTGCCCCATGTTCCGAGAACCTGGCCACCTGTCTTGGCTTTCTC
ATCCTTCCCAACCCAGTGCCGTTTATTTGAGAAAGCTTCTGGCCACTGGGCTTGATGCTTCGGGCTTCTGACTG
CTCCATAGGTTTTGACTGGTGAAACAGGGGCCAGATGACAACCTCTCCTTCGCTCCACAGGTACGCGGGAGCCT
CAGGTTCTCTCAGGGGCAGCAAAGTGGCCCAAGCTGCCCTGACAGCACAGGGCCTGGGGGTGGCTAACGAGAGA
GGCCTTACAGTGCCGGCATGCCTCCTCTTCCACTGTCGTCCTTCTCAGAGGGCCTCAGGCCAAACAAACGGCCT
TTTCGTGTGAAACATCTTCAGGGCGGAAAGGGGCCACTTCTGGCTTTGTTAGCAATAACTGACCTTCACTTTAC
CCTTCTGAAGGAGCAGGGACTCAGCACAGAAATCACTTTAGACGGGGCTGAAGGAGTGTCCCTCCTCTATGTGAA
AAGAAAATTGTTTTATTCTTCACTTCTGACTTTTTAACTGTTTGGCTCACTTCCAGTTAGTTTGAATGAAAAATAAT
AATTTTCTACTTGGAGTTGAAGAGGGCAGAAATCCGCAGCTCTCATCATTGTGATGTGTAGCATGTCTGCCCTCTG
ACTGGACATCATTGCCATTAACCTTCTTCTGGGCATCACGGCAGTGTACGATGCCAGACTTGGAGCAAGGCCAA
CCTTGGAGTCAGTCCACTCATAAAATATGGTAACACCCATTTTAAATTTAAGTTTTGTCCTTAAAGACAACCTC
AGTGGTTAATTATAAAAGTTGTGTTACTTCGTCTCTAAATTAAATTGATAGAAAGATTTAAAAATGTGTTTTGTTT
CTACTATTGAGAACTGCGAACTAGGGAAAGGTTGGTATGAAAAATGTCTTTCTTTTTTCAATGTACATAGTT
CAACTCTTTCTTTGTTACATTTAACTATATCCATGGATATCAGTCTGCTTTGGACTCCTCTGCTAGTGTTACAG
ATGGAAATAAAACCATTAATTTGAACCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1387

MSTRKRRGGAINSRQAQKRTREATSTPEISLEAEPIELVETAGDEIVDLTCEPLEPVVVDLTHNDSVVIVDERRR
PRRNARRLPQDHADSCVVSSDDEELSRDRDVYVTTHTPRNARDEGATGLRPSGTVSCPICMDGYSEIVQNGRLIV
STECGHVFCSQCLRDSLKNANTCPTCRKKINHKRYHPYYI

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FIGURE 1388A

CGGCGCGCTCGCCGCGGAGGTGGGATCCCAGGCCCTCTCCAGTCCGCCGAGGGCGCACCACCGGCCCGTCTCGC
CCGCCGCGCCGGGAGGTGGAGCACGAGCGCACGTGTTAGGAACCTAGAAAAGATTGTACAATGAATGGTGATTCT
CGTGCTGCGGTGGTGACCTCACCACCCCCGACCACAGCCCCCTACAAGGAGAGGTACTTCGACCGAGTAGATGAG
AACAAACCCAGAGTACTTGAGGGAGAGGAACATGGCACCAGACCTTCGCCAGGACTTCAACATGATGGAGCAAAAAG
AAGAGGGTGTCCATGATTCTGCAAAGCCCTGCTTTCTGTGAAGAATTGGAATCAATGATACAGGAGCAATTTAAG
AAGGGGAAGAACCCACAGGCCCTATTGGCATTACAGCAGATTGCAGATTTTATGACCACGAATGTACCAATGTCT
TACCCAGCAGCTCCGCAAGGAGGGATGGCTGCCTTAAACATGAGTCTTGGTATGGTGACTCCTGTGAACGATCTT
AGAGGATCTGATTCTATTGCGTATGACAAAGGAGAGAAGTTATTACGGTGTAAATTGGCAGCGTTTTATAGACTA
GCAGATCTCTTTGGGTGGTCTCAGCTTATCTACAATCATATCACAACCAGAGTGAACCTCCGAGCAGGAACACTTC
CTCATTGTCCCTTTTGGGCTTCTTTACAGTGAAGTGAAGTGCATCCAGTTTGGTTAAGATCAATCTACAAGGAGAT
ATAGTAGATCGTGGAAGCACTAATCTGGGAGTGAATCAGGCCGGCTTCACCTTACACTCTGCAATTTATGCTGCA
CGCCCGGACGTGAAGTGCGTCTGTCACATTACACCCCAGCAGGGGGCTGCGGTCTCTGCAATGAAATGTGGCCTC
TTGCCAATCTCCCCGGAGGCGCTTTCCCTTGGAGAAGTGGCTTATCATGACTACCATGGCATTCTGGTTGATGAA
GAGGAAAAAGTTTTGATTTCAGAAAAATCTGGGGCCTAAAAGCAAGGTTCTTATTCTCCGGAACCATGGGCTCGTG
TCAGTTGGAGAGAGCGTTGAGGAGGCCTTCTATTACATCCATAACCTTGTGGTTGCCTGTGAGATCCAGGTTTCCA
ACTCTGGCCAGTGCAGGAGGACCAGACAACCTTAGTCCTGCTGAATCCTGAGAAGTACAAAGCCAAGTCCCGTTCC
CCAGGGTCTCCGGTAGGGGAAGGCACTGGATCGCCTCCCAAGTGGCAGATTGGTGAGCAGGAATTTGAAGCCCTC
ATGCGGATGCTCGATAATCTGGGCTACAGAAGTGGCTACCCTTATCGATAACCTGCTCTGAGAGAGAAGTCTAAA
AAATACAGCGATGTGGAGGTTCTGCTAGTGTACAGGTTACTCCTTTGCTAGTGACGGTGATTCCGGGCACTTGC
TCCCCACTCAGACACAGTTTTTCAGAAGCAGCAGCGGGAGAAGACAAGATGGCTGAACTCTGGCCGGGGCGACGAA
GCTTCCGAGGAAGGGCAGAATGGAAGCAGTCCCAAGTCGAAGACTAAGTGGACTAAAGAGGATGGACATAGAAGT
TCCACCTCTGCTGTCCCTAACCTGTTTGTTCATTGAACACTAACCCAAAAGAGGTCCAGGAGATGAGGAACAAG
ATCCGAGAGCAGAATTTACAGGACATTAAGACGGCTGGCCCTCAGTCCAGGTTTTGTGTGGTGTAGTGATGGAC
AGGAGCCTCGTCCAGGGAGAGCTGGTGACGGCCTCCAAGGCCATCATTGAAAAGGAGTACCAGCCCCACGTCATT
GTGAGCACCACGGGCCCCAACCCCTTACCACACTCACAGACCGTGAGCTGGAGGAGTACCGCAGGGAGGTGGAG
AGGAAGCAGAAGGGCTGTGAAGAGAATCTGGACGAGGCTAGAGAACAGAAAGAAAAGAGTCTCCAGACCAGCCT
GCGGTCCCCACCCGCTCCCAGCACTCCCATCAAGCTGGAGGAAGGAGACGGATGCGCTAGAGAGTACCTGTTA
CCCTAACCTTGTGCCGGAGCCGACTACTGGAGATGACAGTGATGCTGCCACCTTTAAGCCAACCTCTCCCCGATCT
GTCCCCTGATGAACCTTCAGAAGCACTCGGCTTCCCAATGTTAGAGAAGGAGGAGGAAGCCCATAGACCCCCAAG
CCCCACTGAGGCCCCCTACTGAGGCCAGCCCCGAGCCAGCCCCAGACCCAGCCCCGGTGGCTGAAGAGGCTGCCCC
CTCAGCTGTGAGGAGGGGGCCGCCGCGGACCTGGCAGCGATGGGTCTCCAGGCAAGTCCCCGTCCAAAAAGAA
GAAGAAGTTCCGTACCCCGTCTTTCTGAAGAAGAGCAAGAAGAAGAGTGACTCCTGAAAGCCCTGCGCTAACAC
TGTCTGTCCGGAGCGACCCCTGGCTCTGCCAGCGTCCCCGGCCACGTCTGTGCTCTGTCTTGTGTAATGGAATG
CAAAAAGCCAAGCCCTCCGCCTAGAGGTCCCCTCACGTGACCAGCCCCGTGTAGCCCCGGGCTGACCCAGTGTG
TGCTCAGCAGCCCCACCCACCCCTGCCCTTGTCTCTCAGAGCCTCAGCTTCTGGGGGAGACATGCTCTCCCCA
CAGGGGGGAGGCACTAAGTCATGGTCTCTGGCTGGAAGGTACTGAAGGCTTCTGCAGCTTTGGCTGCACGTACCC
TCCTGAGCCTCACCTTTCTGCGCTCCCTCCTGTTGTGAAATCACACATTCTGTCTCTGCTTGGCTTCCCCCTCC
ACCCTAAAGTCTCAGGTGACGGACTCAGACTCCTGGCTTCATGTGGCATTCTCTCTGCTCAGTGATCTCACTTAA
ATCTATATACAAAGCCTTGGTCCCGTGAAAACACTCGTGTGCCACCAGCGGCCTTGAAGAGGCAGGTCTGGGCC
AGATGCTGGGCAGGAACCCACGCGGCAGATGGGCCTGTGTGCACCCAACGTGATGCTATGCATGTCTGACCGAC
GATCCCTCGACCAGAATCAGATTCAGGAGCTCAGTTTCTTTTTCTACTTGGGTCTCTGGATTCTGTCTATAGGGAA
GGTATATCAGGAGGGGAAGAGGCCTTTCTAGAAATTTCTTTGAGCAGGTTTACAATTTAGCTTACATTTTTTCGAC
TGTGAACGTGAATAGGCTGCTTTTGTCTTCTTTCCAGACCCACAGTAGAGCACTTTTCACTTATTTGGGG
GAGGCTTCAGGGGACTGTTCTCACCTTAACCTCAGCCAGAAAGATGCCCTAGTTGTGATCAAAGGTAACCTCAGAGT
GGAGGGTAGCCCTGGGGCCCCCTCGACATCACCGTCATTGATGGAGCCTGAACCGTGTGCTCCTCGGCAGATGCTG
TTGTTGTTACTTCCCTCCAAGAGGCTGGAAGGGGCTCAGAGCTGCTGAGCAGGAACCGGAGGGGTGACCCATTTTC
AGGAGGTGCCGGTACCAGCCTGACTAGGTACAGGCAAGCTTGTGTGGGCCAACAGGCCCTTGGTAGAGCTGGTG
CCAGATGTGGGCTCAGATCCTGGGCATGATGGGCCGAGCCACCTCGGATCCCACTGATTGGCCAGCCGAGCGAGA

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FIGURE 1388B

ACCAGGCTGCTGCATGGCACTGACCGCCGCTTCCAGCTTCCTCTGAGCCGCAGGGCCTGCTACGCGGGCAAGCGT
GCTGCCTCTCTTCTGTGTCGTTTTGTTGCCAAGGCAGAATGAAAAGTCCTTAACCGTGGACTCTTCCTTTATCCC
CTCCTTTACCCACATATGCAATGACTTTTAATTTTCACTTTGTAGTTTAATCCTTTGTATTACAACATGAAAT
ATAGTTGCATATATGGACACCGACTTGGGAGGACAGGTCCTGAATGTCCTTTCTCCAGTGTAACATGTTTTACTC
ACAAATAAAATTCTTTCAGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1389

MNGDSRAAVVTSPPPTTAPHKERYFDRVDENNPEYLRERNMAPDLRQDFNMMEQKKRVSMILQSPAFCEELESMI
QEQFKKGKNPTGLLALQQIADFM TTNV PNVYPAAPQGGMAALNMSLGMVTPVNDLRGSDSIAYDKGEKLLRCKLA
AFYRLADLFGWSQLIYNHITTRVNSEQEHFLIVPFGLLYSEVTASSLVKINLQGDIVDRGSTNLGVNQAGFTLHS
AIYAARPDVKCVVHIHTPAGAAVSAMKCGLLPISPEALSLGEVAYHDYHGILVDEEEKVLIQKNLGP KSKVLILR
NHGLVSVGESVEEAFYYIHNLVVACEIQVRTLASAGGPDNLVLLNPEKYKAKSRSPGSPVGEGTGSPPKWQIGEQ
EFEALMRMLDNLGYRTGYRYPALREKSKKYSDEVPASVTGYSFASDGDSGTCSPLRHSFQKQKQREKTRWLNS
GRGDEASEEGQNGSSPKSKTKWTKEDGHRTSTSAVPLNFVPLNTNPKEVQEMRNKIREQNLQDIKTAGPQSQVLC
GVVMDRSLVQGELVTASKAIEKEYQPHVIVSTTGPNPFTTLTDRELEEYRREVERKQKGCEENLDEAREQKEKS
PPDQPAVPHPPPSTPIKLEEGDGCAREYLLP

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FIGURE 1390A

CGGCGCGCTCGCCGGCCGAGGTGGGATCCCGAGGCCTCTCCAGTCCGCCGAGGGCGCACACCAGGCCCGTCTCGC
CCGCCGCGCCGGGAGGTGGAGCACGAGCGCACGTGTTAGGAACCTAGAAAGATTGTACAATGAATGGTGATTCT
CGTGCTGCGGTGGTGACCTCACCACCCCGACCACAGCCCCTCACAAGGAGAGGTACTTCGACCGAGTAGATGAG
AACAACCCAGAGTACTTGAGGGAGAGGAACATGGCACCAGACCTTCGCCAGGACTTCAACATGATGGAGCAAAAG
AAGAGGGTGTCCATGATTCTGCAAAGCCCTGCTTTCTGTGAAGAATTGGAATCAATGATACAGGAGCAATTTAAG
AAGGGGAAGAACCCACAGGCCTATTGGCATTACAGCAGATTGCAGATTTTATGACCACGAATGTACCAAATGTC
TACCCAGCAGCTCCGCAAGGAGGGATGGCTGCCTTAAACATGAGTCTTGGTATGGTGACTCCTGTGAACGATCTT
AGAGGATCTGATTCTATTGCGTATGACAAAGGAGAGAAGTTATTACGGTGTAAATTGGCAGCGTTTTATAGACTA
GCAGATCTCTTTGGGTGGTCTCAGCTTATCTACAATCATATCACAACCAGAGTGAACCTCGAGCAGGAACACTTC
CTCATTGTCCCTTTTGGGCTTCTTTACAGTGAAGTGACTGCATCCAGTTTGGTTAAGATCAATCTACAAGGAGAT
ATAGTAGATCGTGGAAGCACTAATCTGGGAGTGAATCAGGCCGGCTTCACCTTACACTCTGCAATTTATGCTGCA
CGCCCGGACGTGAAGTGCGTCTGTCACATTACACCCCGAGCAGGGGCTGCGGTCTCTGCAATGAAATGTGGCCTC
TTGCCAATCTCCCGGAGGCGCTTCCCTTGGAGAAGTGGCTTATCATGACTACCATGGCATTCTGGTTGATGAA
GAGGAAAAAGTTTGTATTGAGAAAAATCTGGGGCCTAAAAGCAAGGTTCTTATTCTCCGGAACCATGGGCTCGTG
TCAGTTGGAGAGAGCGTTGAGGAGGCCTTCTATTACATCCATAACCTTGTGGTTGCCTGTGAGATCCAGGTTCGA
ACTCTGGCCAGTGCAGGAGGACCAGACAACCTTAGTCCTGCTGAATCCTGAGAAGTACAAAGCCAAGTCCCCTTCC
CCAGGGTCTCCGGTAGGGGAAGGCACTGGATCGCCTCCCAAGTGGCAGATTGGTGAGCAGGAATTTGAAGCCCTC
ATGCGGATGCTCGATAATCTGGGCTACAGAAGTGGCTACCCTTATCGATACCCTGCTCTGAGAGAGAAGTCTAAA
AAATACAGCGATGTGGAGGTTCCCTGCTAGTGTACAGGTTACTCCTTTGCTAGTGACGGTGATTCCGGGCCTTGC
TCCCCACTCAGACACAGTTTTTCAAGCAGCAGCGGGAGAAGACAAGATGGCTGAACCTTGCCCGGGGCGACGAA
GCTTCCGAGGAAGGGCAGAATGGAAGCAGTCCCAAGTCAAGACTAAGGTGTGGACGAACATTACACACGATCAC
GTGAAACCCCTTGCTGCAGTCTCTCTCGTCCGGTGTCTGCGTGCCAAGCTGTATTACCAACTGCTTGTGGACTAAA
GAGGATGGACATAGAACTTCCACCTCTGCTGTCCCTAACCTGTTTGTTCATTGAACACTAACCCAAAAGAGGTC
CAGGAGATGAGGAACAAGATCCGAGAGCAGAATTTACAGGACATTAAGACGGCTGGCCCTCAGTCCCAGGTTTTG
TGTGGTGTAGTGATGGACAGGAGCCTCGTCCAGGGAGAGCTGGTGACGGCCTCCAAGGCCATCATTGAAAAGGAG
TACCAGCCCCACGTATTGTGAGCACCACGGGCCCCAACCTTACACACTCACAGACCGTGAGCTGGAGGAG
TACCGCAGGGAGGTGGAGAGGAAGCAGAAGGGCTGTGAAGAGAATCTGGACGAGGCTAGAGAACAGAAAGAAAAG
AGTCTCCAGACCAGCCTGCGGTCCCCACCCGCTCCAGCACTCCCATCAAGCTGGAGGAAGACCTTGTGCCG
GAGCCGACTACTGGAGATGACAGTGATGCTGCCACCTTTAAGCCAACCTCTCCCCGATCTGTCCCCCTGATGAACCT
TCAGAAGCACTCGGCTTCCCAATGTTAGAGAAGGAGGAGGAAGCCATAGACCCCCAAGCCCCACTGAGGCCCTT
ACTGAGGCCAGCCCCGAGCCAGCCCCAGACCCAGCCCCGGTGGCTGAAGAGGCTGCCCCCTCAGCTGTGAGGAG
GGGGCCGCGCGGACCCCTGGCAGCGATGGGTCTCCAGGCAAGTCCCCGTCCAAAAGAAAGAAAGTTCCGTACC
CCGTCTTTCTGAAGAAGAGCAAGAAGAAGAGTGACTCTGAAGGCCCTGCGCTAACACTGTCTGTCCGAGCG
ACCCTGGCTCTGCCAGCGTCCCCGGCCACGTCTGTGCTCTGTCTTGTGTAATGGAATGCAAAAAGCCAAGCCC
TCCGCTAGAGGTCCCCTCAGTGACCAGCCCCGTGTAGCCCCGGGCTGACCCAGTGTGTGCTCAGCAGCCCCAC
CCCACCCTGCCCCCTTGTCTCTCAGAGCCTCAGCTTCTGGGGGAGACATGCTCTCCCCACAGGGGGGAGGCACTA
AGTCATGGTCTCTGGCTGGAAGGTACTGAAGGCTTCTGCAGCTTTGGCTGCACGTACCCCTCCTGAGCCTCACCTT
TCCTGCCGTCCCTCCTGTTGTGAAATCACCACATTCTGTCTCTGCTTGGCTTCCCCTCCACCCTAAAGTCTCAGG
TGACGGAATCAGACTCCTGGCTTCATGTGGCATTCTCTCTGCTCAGTGATCTCACTTAAATCTATATACAAAGCC
TTGGTCCCGTGAAAACACTCGTGTGCCACCAGCGGCCTTGAAGAGGCAGGTCTGGGCCAGATGCTGGGCAGGAA
ACCCAGCGGCAGATGGGCCTGTGTGCACCAACGTGATGCTATGCATGTCTGACCGACGATCCCTCGACCAGAA
TCAGATTACAGGAGCTCAGTTTCTTTTCACTTGGGTCTCTGGATTCTGTGTCATAGGGAAGGTATATCAGGAGGGG
AAGAGGCCTTTCTAGAATTTTCTTTGAGCAGGTTTACAATTTAGCTTACATTTTTCGACTGTGAACGTGAATAGG
CTGCTTTTTTGTCTTTCTTTTCCAGACCCACAGTAGAGCACTTTTCACTTATTTGGGGGAGGCTTCAGGGGACT
GTTCTACCTTAACTCAGCCAGAAAGATGCCCTAGTTGTGATCAAAGGTAACCTCAGAGGTGGAGGGTAGCCCTGGG
GCCCTCGACATCACCCTCATTGATGGAGCCTGAACCGTGTGCTCCTCGGCAGATGCTGTTGTTGTTACTTCCCT
CCAAGAGGCTGGAAAAGGGCTCAGAGCTGCTGAGCAGGAACCGGAGGGTGACCATTTTCAAGAGGTGCCGTTACC
AGCCTGACTAGGTACAGGCAAGCTTGTGTGGGCCCAACAGGCCCTTGGTAGAGCTGGTGCCAGATGTGGGCTCAG

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FIGURE 1390B

ATCCTGGGCATGATGGGCCGAGCCACCTCGGATCCCACTGATTGGCCAGCCGAGCGAGAACCAGGCTGCTGCATG
GCACTGACCGCCGCTTCCAGCTTCCTCTGAGCCGCAGGGCCTGCTACGCGGGCAAGCGTGCTGCCTCTCTTCTGT
GTCGTTTTGTTGCCAAGGCAGAATGAAAAGTCCTTAACCGTGGACTCTTCCTTTATCCCTCCTTTACCCACAT
ATGCAATGACTTTTAATTTTCACTTTTGTAGTTTAATCCTTTGTATTACAACATGAAATATAGTTGCATATATGG
ACACCGACTTGGGAGGACAGGTCCTGAATGTCCTTTCTCCAGTGTAACATGTTTTACTCACAATAAAATTCTTT
CAGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1391

MNGDSRAAVVTSPPTTAPHKERYFDRVDENNPEYLREERNMAPDLRQDFNMMEQKKRVSMILQSPAFCEELESMI
QEQFKKGKNPTGLLALQQIADFMTTNVFNVPYAAPQGGMAALNMSLGMVTPVNDLRGSDSIAYDKGEKLLRCKLA
AFYRLADLFGWSQLIYNHITTRVNSEQEHFLIVEFGLLYSEVTASSLVKINLQGDIVDRGSTNLGVNQAGFTLHS
AIYAARPDVKCVVHIHTPAGAAVSAMKCGLLPISPEALSLGEVAYHDYHGILVDEEEKVLIQKNLGPKSKVLILR
NHGLVSVGESVEEAFYYIHNLVVACEIQVRTLASAGGPDNLVLLNPEKYKAKSRSPGSPVGEETGSPPKWQIGEQ
EFEALMRMLDNLGYRTGYRYPALREKSKKYSDEVVPASVTGYSFASDGDGSGTCSPLRHSFQKQOREKTRWLS
GRGDEASEEGQNGSSPKSKTKVWTNITHDHVKPLLQSLSSGVCVPSCITNCLWTKEDGHRTSTSAVPNLFVPLNT
NPKEVQEMRNKIREQNLQDIKTAGPQSQVLCGVVMDRSLVQGELVTASKAIEKEYQPHVIVSTTGPNPFTTLD
RELEEYRREVERKQKGCEENLDEAREQKEKSPPDQPAVPHPPPSTPIKLEEDLVPEPTTGDDSDAATFKPTLPDL
SPDEPSEALGFPMLEKEEEEHRPPSPTEAPTEASPEPAPDPAPVAEEAAPSAVEEGAAADPGSDGSPGKSPSKKK
KKFRTPSFLKKSKKKSDS

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FIGURE 1392

GCACGTGTCTTAGGGTAGCGCGCGCCTGTCTCTCTTCGGGTCTCGGGCCCTTGGGCGCAGCGGGGCGCGCGCCAT
GGCGAAGGCGAAGAAGGTCGGGGCGCGAAGGAAGGCCTCCGGGGCGCCGGCGGGAGCGCGAGGGGGCCCGGCGAA
GGCCAACTCCAATCCGTTTCGAGGTGAAAGTTAACAGGCAGAAGTTCCAGATCCTGGGCCGGAAGACGCGCCACGA
CGTGGGACTGCCCGGGGTGTCTCGCGCACGGGCCCTCAGGAAGCGTACACAGACTTTACTAAAAGAGTACAAAGA
AAGGGATAAAATCCAATGTATTTCAGAGATAAACGCTTCGGAGAATACAACAGCAACATGAGCCCCGAGGAGAAGAT
GATGAAGAGGTTTGCTCTGGAACAGCAGCGACATCATGAGAAAAAAGCATCTACAATCTAAATGAAGATGAAGA
ATTGACTCATTATGGCCAGTCTTTGGCAGACATCGAGAAGCATAATGACATTGTGGACAGTGACAGCGATGCTGA
GGATCGAGGAACGTTGTCTGCTGAGCTGACTGCTGCCCCACTTTGGAGGAGGCGGTGGGCTCCTTCACAAGAAGAC
TCAACAGGAAGGCGAGGAGCGGGAGAAACCGAAGTCCCGGAAAGAGCTGATTGAAGAGCTCATTGCCAAGTCAAA
ACAAGAGAAGAGGGAGAGACAAGCTCAACGAGAAGATGCCCTCGAGCTCACGGAGAAGCTAGACCAAGACTGGAA
AGAAATTCAGACTCTCCTGTCCACAAAACCTCCCAAGTCAGAGAACAGAGACAAAAGGAAAAACCCAAGCCCGA
TGCATATGACATGATGGTTCGCGAGCTTGGCTTTGAAATGAAGGCGCAGCCCTCTAACAGGATGAAGACGGAGGC
AGAATTGGCAAAGGAAGAGCAGGAGCACCTCAGGAAGCTGGAGGCTGAGAGACTTCGAAGAATGCTTGGAAAGGA
TGAGGATGAAAATGTTAAGAAACCAAAACATATGTCAGCAGATGATCTGAATGATGGCTTCGTGCTAGATAAAGA
TGACAGGCGTTTGCTTTCTACAAAGATGGAAGATGAATGTCGAGGAAGATGTCCAGGAAGAGCAAAGCAAGGA
AGCCAGTGACCCTGAGAGCAACGAGGAAGAAGGTGACAGTTCAGGCGGGGAGGACACAGAGGAGAGCGACAGCCC
AGATAGCCACTTGGACCTGGAATCCAACGTGGAGAGTGAGGAAGAAAACGAGAAGCCAGCAAAAGAGCAGAGGCA
GACTCCTGGGAAAGGGTTGATAAGCGGCAAGGAAAGAGCTGGAAAAGCTACCAGAGACGAGCTGCCCTACACGTT
CGCAGCCCCTGAATCCTATGAGGAACTGAGATCTCTGTTGTTAGGAAGATCGATGGAAGAGCAGCTTTTGGTGGT
GGAGAGAATTGAGAAGTGCAACCACCCGAGTCTCGCAGAAGGAAAACAAAGCAAAATTAGAAAACTGTTTGGCTT
TCTTTTGAATACGTTGGCGATTTGGCTACAGATGACCCACCAGACCTCACAGTCATTGATAAGTTGGTTGTGCA
CTTATATCATCTTTGCCAGATGTTTCTGAATCTGCAAGTGACGCTATCAAATTTGTTCTCCGAGATGCGATGCA
TGAGATGGAAGAAATGATTGAGACCAAAGGCCGGGCGGCATTGCCAGGGTTGGATGTGCTCATTTATTTGAAAT
CACTGGGCTGCTATTTCCAACCTCCGACTTCTGGCACCCAGTGGTGACCCCTGCCCTCGTGTGCCTCAGTCAGCT
GCTCACCAGTGCCCCATCCTGTCCCTCCAGGACGTGGTGAAAGGGCCTGTTCTGTGTGCTGCCTGTTCTGGAGTA
TGTGGCTTTGTCCAGAGGTTTATACCTGAGCTTATTAATTTTCTTCTTGGGATTCTTTACATAGCAACTCCAAA
CAAAGCAAGCCAAGGTTCCACTCTGGTGACCCCTTTCAGAGCGCTTGGGAAGAACTCGGAAGTCTCGTGGTGTG
TGCTAGAGAGGATGTGGCCACGTGGCAGCAGAGCAGCCTCTCCCTCCGCTGGGCGAGTAGACTGAGGGCCCCAAC
TTCGACAGAGGCCAATCACATCCGACTGTCTGCCTGGCTGTGGGCCTGGCCCTGCTGAAGCGCTGCGTGCTCAT
GTACGGGTCCCTGCCATCCTTCCACGCCATCATGGGGCCTCTCCAAGCCCTCCTCACGGATCACCTGGCGGACTG
CAGCCACCCGCAGGAGCTCCAGGAGCTGTGTGTCAGAGCACACTGACCGAAATGGAAGCCAGAAGCAGCTCTGCCG
GCCGCTGACCTGTGAGAAGAGCAAGCCTGTCCCACTGAAGCTTTTACACCCCGGCTGGTCAAAGTCTCTGAGTT
TGGAAGAAAACAAGGCAGTAGTAAGGAGGAACAGGAAAGGAAGAGGCTGATCCACAAACACAAGCGTGAATTTAA
AGGGGCCGTTTCGAGAAATCCGCAAGGACAATCAGTTCTTGGCGAGGATGCAACTCTCAGAAATCATGGAACGGGA
TGCGGAAAGAAAGCGGAAAGTAAAGCAGCTTTTTTAACAGCCTGGCTACACAGGAAGGCGAATGGAAGGCTCTGAA
GAGGAAAAAGTTCAAAAAATTAAATTACATTTTATAAATAAGGCAAGGAAGTGGACATTACCTCACATCTGCAATT
CCAACCTCTGGGAGGCCAAGGCAGGAAGATTGCTTCAGCCCAGGAGTTCGAGACCAGCCTGGGCAACACAGGAA
GACCCCGTCTCTACCAAAAAAACATAAAAAATTAGCCAAGTGTGGTGGCACGCACCTGTAGTCCCACTACTCGGG
AGGCTGAAGCAGGAGGACTGCTTGAGCTGAGTCCAAGGTTACAGTGAGCCGTGATTGAGCCACTGCACTCCAGCC
TCGGCCACAGTGCAAGACTGTGTGCTTAAAAAAAATTTTTTTTTTGAGACGGAGTTTTGCTCTTGTGTGCCA
GGCTGGAGTGCAATGGCACAACTCCACCTCCTGGGTCAAGCGATTCTCCTGCCTCAGCCTCCCGAGTAGCTGG
GATTACAGACATGTGCCACCACGCCAGCTAATTTTGATTTTTTAGTAGAGACGGGGTTTCTCCATGTTGGTCAG
GCTGGTCTCGAATTCCCGACCTCAGGTAATCCACCTGCCTTGGCCCCCAATTATAGGTGTGAGCCACAGCACC
AGCCAAAAAAGTAATTTTTTTTAGAGTAATAATGCTATAATGTTGGTGTGATTCCAACCTCCAGCTCCCCCACC
CGCTGCCTGCGGTTTTGTTTCTGTTAAACGTCACCTGATGAAATAGAATGAATCCTGAAATGCACCTCTGGGAT
CGGGAATGGTCTGTGTGTTATCAGCTGCGACTGGTTCAGTGCCTGAGACAAGCCTCATGGGACTGGGGATTCT
GGCCAGTGTAATTTCTGTCAACCACGGACGTTTGCTTCATGTGTAGAATTTACTGTTGTTATGCAATTATATT
TTCAATTATAAATG

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FIGURE 1393

MAKAKKVGARRKASGAPAGARGGPAKANSNPFEVKVNRQKFQILGRKTRHDVGLPGVSRARALRKRTQTLLKEYK
ERDKSNVFRDKRFGEYNSNMSPEEKMMKRFALEQQRHHEKKS IYNLNEDEELTHYGQSLADIEKHNDIVDSDDA
EDRGTLSAELTAAHFGGGGGLLHKKTQQEGEEREKPKSRKELIEELIAKSKQEKRRERQAQREDALELTEKLDQDW
KEIQTLLSHKTPKSENDRDKKEKPKPDAYDMMVRELGFEMKAQPSNRMKTEAELAKEEQEHLRKLEAERLRRMLGK
DEDENVKKPKHMSADDLNDGFVLDKDDRLLSYKDGMNVEEDVQEEQSKEASDPESNEEEGDSSGGEDTEESDS
PDSHLDLESNVESEEEENEKPAKEQRQTPGKGLISGKERAGKATRDDELPTFAAPESYEELRSLLLGRSMEEQLLV
VERIQKCNHPSLAEGNKAKLEKLFGLLEYVGDLATDDPPDLTVIDKLVVHLYHLCQMFESASDAIKFVLRDAM
HEMEEMIETKGRAALPGLDVLIYLIKITGLLFPTSDFWHPVVTPALVCLSQLLTCKPILSLQDVVKGLFVCCLFLE
YVALSQRFIPELINFLLGILYIATPNKASQGSLVHFPFALGKNSSELLVVSAREDVATWQQSSLSLRWASRLRAP
TSTEANHIRLSCLAVGLALLKRCVLMYGSLSFHAIMGFLQALLTDHLADCSHPQELQELCQSTLTEMESQKQLC
RPLTCEKSKPVPLKLFTPRLVKVLEFGRKQGSSKEEQERKRLIHKHKREFKGAVREIRKDNQFLARMQLSEIMER
DAERKRKVKQLFNSLATQEGEWKALKRKKFKK

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FIGURE 1394A

CCCTCCGGCTCGGCGAAGCAGGGAAGGGGAGAGAAGCAGGAGTCGGGAGACTGCACAGGCCAGAAAGTCTGCGGA
GCGGGCCGCGCCCTGGCCCGCCGGGCTCCAAGTCCCGCGTCGCCGCCCTGGCGGGGACGGTGCAGCAGGCGGC
GGGATGCGGCGGGGCGGCAGCCTGAGCGCCCCGGATGCGCCGCGGGGCGGCCTGCAAGAGCGACGCGCGGCT
GCTGCTGGGGCGGGACGCGCTGCGGCCGGCGCCCGCCCTGCTGGCCCCCGCGTGTCTGCTGGGCGCCGCGCTCGG
CCTCGGCCTCGGCCTTTGGCTTGGCTGCCGCGGGCCGCCAGCGCACGCGACACCAGAAAGACGACACTCAAAA
TCTGCTCAAGAATTTGGAGTCTAATGCGCAGACCCCTCGGAAACTGGCTCCCCATCAAGGAGGAGGAAGAGAGA
AGTGCAGATGTGGAAGGACAAGGAAGCTGTTGATGAATGTGAGCCGCTTCCAACAGCAATATCACAGCATTTCGC
CCTGAAGGCCAAAGTCATCTACCCCATCAATCAGAAGTTCGGCCTCTGGCCGATGGCTCCTCCAACCCGTCTCT
GCAAGAACTTAAAGCAGGCTGTTTGGCCACACCAGCCGGTAGAGGCCTCTCCTTCCAGCAGTCTGGGGAGCCT
GAGCCAGGTGAGAAGGACGACTGCAGCTCCTCATCCAGCGTCCACTCGGCCACCAGCGATGACAGGTTTCTCAG
CCGCACCTTCTCCGGGTGAACGCCTTCCCTGAAGTGCTGGCCTGCGAGAGTGTAGACGTTGACCTGTGTATCTA
CAGCCTTCACTTAAAAGACCTGCTGCATTTGGACACGGCACTGAGGCAGGAAAAGCATATGATGTTTATTTCAGAT
TTTTAAAATGTGCCTCCTTGACCTTCTTCTTAAAAAGAAGTCAGATGATGAATTATACCAGAAGATCCTTTCAA
ACAAGAAAAAGATTTGGAGGAAGTAGAAAAGGGACTTCAGGTCAAAGTGTCAAACACAGAAATGTGCGGGGCTGG
TGACTCTGAGTACATCACCTGGCTGATGTGAAAAAGAAGGAGAGAGAATACTCTGAACAGCTAATCGATAATAT
GGAAGCTTCTGGAACAGATGGCAAATATCCAGCACTTCTTGTGGACAGTTTAAGTGTTCAGCTCCAAAGC
CCGACAGCTGATGATGACTCTGACGGAAGAATGATTGCAGCCGAAGGGCTATTGTGCGATTCTCAGGAGCTGCA
GGCTCTGGACGCCCTGGAGAGGACGATGGGGCGGGCGACATGGCAAAGTGATTGAGTTTCTGAAGCTGCAAGT
CCAGGAGGAGACCAGGTGCCGGCTGGCTGCCATCTCCACGGCCTGGAGCTGCTGGCTGGTGAGGGGAAGCTGTC
CGGGCGGCAGAAGGAGGAGCTGCTCACGCAGCAGCACAAGGCCTTCTGGCAGGAGGCAGAGCGCTTCAGCCGGGA
GTTTGTCCAGCGAGGCAAAGACCTGGTCACGGCGTCTCTGGCTCACCAGGTGGAGGGAACGGCAAAGTCAACGCT
GGCCCAAGAGGAGGAACAGAGAAGCTTCTGGCTGAGGCCAGCCGACTGCTGACCCGGAAGTCTTCTCGAGGC
TTTTCATGAGGTCTTGAGAGGCAGAGGCTGATGCAGTGTGACCTGGAGGAAGAGGAGAATGTCAGAGCCACCGA
GGCTGTGGTTGCACTCTGCCAGGAGCTGTACTTCAGCACCGTGGACACTTTCAGAAAGTTCGTGGATGCCCTGTT
CCTTCAGACGCTCCCTGGCATGACTGGCCTCCCCCGGAAGAGTGTGACTACTTGAGGCAGGAAGTCCAGGAGAA
CGCTGCCTGGCAGCTGGGGAAGTCAAATCGCTTCCGGAGGCAGCAGTGGAAACTCTTCCAGGAGCTCCTAGAGCA
AGACCAGCAGGTGTGGATGGAGGAGTGTGCGCTGTCCAGCGTGTGTCAGACACACCTGCGGGAGGACCACGAGGG
CACCATCCGCGGCGTCTTGGGCCGACTGGGCGGCCTCACTGAAGAGTCCACGCGGTGTGTCCTGCAGGGGCATGA
CCTGCTGTTGCGCTCAGCCCTCCGGAGGCTGGCACTCCGCGGCAACGCCCTGGCCACCTGACGCAGATGCGGCT
ATCGGGGAAGAAGCACCTCCTGCAGGAGCTGCGGGAACAGCGTGCAGTGGAGCAGGGGTCTCCAGTGCCTGGA
CGAGCATCAGTGGCAGCTGCTCAGGGCCCTGGAGGCGCGTGTGCTGGAGGAGGCCAGCCGGCTAGAGGAGGAAGC
ACAGCAGACACGGCTGCAGCTCCAGCAGCGGCTCCTGGCCGAGGCCAGGAGGTGGGGCAGCTTCTGCAGCAGCA
CATGGAGTGCGCCATTGGGCAGGCGCTGCTGGTGCATGCACGGAATGCAGCCACCAAGAGCCGGGCCAAGGACAG
GGATGACTTCAAGAGGACACTGATGGAGGCGGCAGTGGAGAGCGTCTACGTGACCAGCGCTGGTGTGAGCCGCT
GGTGCAGGCGTATTACCAGCAAATCGGAAGGATCATGGAGGACCACGAGGAGAGAAAACTGCAGCACCTGAAGAC
CCTGCAGGGTGAGAGGATGGAATAATCAAACTGCGGAAAAAGCAAGAACTCAGCAACCCTTCGTGCGGCAGCAG
GACGGCAGGTGGCGCTCATGAGACCTCCAGGCGGTCCACCAGAGGATGCTGTCCCAGCAGAAGAGGTTCCTGGC
CCAGTTCCTAGTGCACCAGCAGATGCGTCTGCACGCCCAGCAGCAGCAGGAGGATCATGGACCTTCTGGAAGC
CCAGCTGGAGACCCAGCTACAGGAAGCTGAACAGAACTTCACTCTCCGAGCTGGCAGCCTTGGCCCCAGTGGCCCT
TGCTGAAAGCAAAGTGTGCTGCTAAGCGTGGGCTGCTAGAGAAGCCCCCTAAGGACTAAAAGGAAGAAGCCCCCT
GCCCCAGGAAAGAGGGGACCTGGGGGTGCCCAACAATGAGGACCTTGCCCTCCGGGGACCAGACCTCAGGCTCACT
CAGCAGCAAAGGCTGAGTCAGCAAGAAAGTGAAGCTGGGGACAGTGGGAACCTAAAGAAGATGCTAAAGAGAAG
AAGCAACTTGTAGTTTAAAGACCAGTCGGTGGGACAAGACCTGAAGCCCTGGGTCTGGGTGTGAATTCCACCTTCC
CTCCTGCAGTGTGAGAGGCAGCGAGGACGGAGAGGACAGCGCATCTCTAGGCTCTTCTGAGAGGGACAGAGAA
AGAATAGAAATGTGCCCTAAAAGCATAAATGAGTATCACCTGAGAAAATTAGGCATTCCCGTCTTGGAAACACGT
CTCTGTGAGTTTGCATTTTCAATTTGGCTTGGAGCCCTGGCTCGATGCCTCATGGATCTTTCTCCCCAAGGAGGGAC
GTCTTGAGGGGTCCGAGCCTCAGGCCAAGGACCCCTGATGCAGACTCTGGAATCCCTGGCCCAAGGCCTGTCTG
GGCCATCTGGGGCTGAGGACACACAGATACATAATGACACCTGCAGAAATGTATTCTGAGGACACTTAGAAT

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FIGURE 1394B

ATGAGGAAGAGGGTGTGGCCCAACCCTCACTTCACCTGGGGAGGGGCTTCTTCCGGACAGTAGACACCCTGCCCC
TGCAGAGAGATGTCATGGGGGCACCTGCTCTCCCTGATAGATGCTGAGAGCATCCAGAACTTCCAGACCAGCCC
TCTCACCACACCCAGAAGAGGCCTTTCCCATCTGGAGAGAAGCTTCCAGACCAGCCCTTCACACACCACAGCCAG
GAGGGGGCTTTCCACCTGGAGAGAACTTCCAGACCAGCCCCCTCATACCACAGCCAAGAGGGGCTTTCTCACC
TGGAGAGAAATTTCCAGACCATCCCCTCTCACCACAGCCAGGAGAGGCCTTTCCACCGGTAGAGAACTTCCAG
ACCAGCCCCCTCACACCACAGCCAAGAGAAGCCTTTCCAGCCTGGAGAGAACTTCCAGACCAGCCCTCTCACTAC
AGCCAGGAGAGGCCTTTCCCGCCTGGAACTTCCGGACAAGCCTCTCACACACCACAGCCAGGAGAGGCCTTTCC
CACCTGGACAGAACTTCCAGACCAGCCCCTCTCACCACAGCCAGGAGAGGCCTTTACCACCTGGAGAGAAGCTT
CCAGACCAGCCCCTCACACCACAGCCAGGAGAGGCCTTTCCACCTGGAGAGAACTTCCAGACCAGCCCCTCAT
ACCACAGCCAAGAGGGGCTTTCTCACCTGGAGAGAACTTCCAGACCAGCCCCTCACACCACCGCCAGGAGAGG
CCTTTCCACCGGGAGAGAACTTCCAGACCAGCCCCTCACACCACAGCCAGGAGAGGCCTTTCCACCGGGAGA
GAACTTCCAGACCAGCCCTCTCACTACAGCCAGAAGAGGCCTTTCCACCGGGAGAGGAACTTCCAGACCAGCC
CCTCACACCACAGCCAGGAGAGGCCTTTCCCGCCTGGAGAGAAGCTTCAGGCCAGCTCCTCACACCACAGCCAGG
AGAGACCTTTTCTGCCCTGGAGAGAACTTTCAGACCAGCCCCACACACCACAGCCAGGAGAGGCCGTTCTCGCCT
GGAGAGAAGCTTCCAGACCAGCCCCTCACACCACAGCCAGGAGAGGCCTTTCCACCTGGAGAGAACTTCCAGA
CCAGCCCCCTCTCACCACAGCCAGGAGAGGCCGTTCCACCTGGAGGGGAAATTTGCTCCTTTGATGGAGGTTAGGG
ACTGTACCCCTCAGCACTGTGAACATACCGGGCGAGATCATTCTTCAGGGGAAGGAGCTGCCAGAGCATCACAG
GATGTTCCAGTGTCCCTGGTCTCTGCCACCAGATGCCAGCACTCCCACCATTCGTGGCAACCAAGGATGTCTCC
AGACACTGCCCCGTGTCCATGGGGTTATCACCCACTGTGCTGAGTCAAAGGGTGCCCTTGCCCTGGTCTAATCCAG
GACATAGCCGTGGATACGTCCAAAAATCCCCAGAACCTAGTGAGCCCTCTGGCTCTGGGAGCCCTATCTCAGGA
ATTTTCAGGGTCATTTGTGACTTTTCAATTTCTTAAACCTGAAATAGACTCTCTTAGAAACAAGTACTCCTTCC
CAGTGGCCAAAACCTTAATCATCAGAGCGCTTCCTTCAGTTTCTCACCCATCAGCCAGTGGGCTCTCCAAAGTTAA
CCAACAGCTCCCTCTTGTGGTTCACTAAAAAAGCTTGGTTATTCCATGGAGTTGTGCAAAGCTATGGCTTCCTTGG
TGCAATATTCTTAAACCTGCTTTGCATAGAAATCACTTTTGCCAGGCTGGAGTGCAGTGGCGTGATCTCGGCT
CATGGCAATCTCCATCTCCCGGGTTCAAGCGATTTTCTGCTCAGCCTCCCAGTAGCTGGGACTACAGACGTG
TGCCACCACGCCTGGCTAAATCTTTTTTGTATTTTATTTTAGTAGAGACGGGGTTTACCATACTGGCCAGGCTG
CTCTCGAACTCCTGACCTCATCGTCCACCTGCCTCGGCCTCCCCAAAGTGCTGAGATTAGGCGTTAGCCACCGCG
CCCGGCCAGAAATCACTTTTATATTGTACATGGGCCCTCTGCACAGAGTCCGATGGCTCCTCCCGGGGAAGCCT
GATTTTGTGACGTGTGTATAGTAAATGCAGGCCCTCTGGCAGCACCATAATTGGTCGGTTACCCTGAGCCAGAG
CTCTGAAAGCATCTGTGGAATGATCACGGGACCCTTCTCCTCTGAGAAGGCTCCCGGCTGCCTCCCCGCCACCGA
GCTTGTAGCCTGAATGCCTGGCTGTGCGATGGAGCATTTTGCTTCTGGGGTGCTTCTCCTTAGCCAAAGGGAACGT
GTCATTTGCTCGACCCTGGCCACCCTTGCCGCCAGCTGTTGTGCTGGGCACAGTCTGGGGCACAGGCCTCCAT
GATGAAGACGCGTGGGCTGTGGTGCTTTTCATCCGTACAAACTGGCACCTGTACCTGCCAGCAGGAGCATGATG
GGGACTTCCATGCTGGAATTGCTCCCTGATTAATAATGAGATATGGCTATTTGGAAGACACTGCATTTTAGCCAGT
GTACCTGGGCACAGACTCGGGGCTGCCCTGAAGCTGATGAAGGCTTGAAGGACGGAAGGGCTGAGCCACATGAAG
GCAGCACTCAGGGCCAGGGGAGAGAGAAGAGGATCAGCAGTGCAGCCCCAGGATGCCTCGCAGACGTGCCTTCTG
CCATGATTGTGAAGTTCTAGCCACGTGGAACCTCTCTCGGAAGAAGTGGTTGTTAAAGAGCACCTCTGCCTTCTTC
CTCTGTTGCCATGTGATCTCTGCACACGCTAGCTCTCCTTCGCCTTCTGCCATGCTGGAAGTAGCCTGAGGCCCT
CACCAGAAGCAGACGCTGGCACCGTGCTGCTTGTACAGCCTGCAGAGCCGTGAGCCAAGTAAACCTCTTTAATTA
CCCAGCCTCAGGTGCTCCGGGAACGCCTTCCGCGGAATGAAGCGGCCCATGCCCTTGTGACGTTGATGTTTCCG
TCTTCAAAGACGATCTTGCCCTGGCTGATGACCACTAGTGGGGAGCCGTGGCACTCCATACCCTCGAAGATGTTG
TACTCCACCGCCTGCACCAACAGCCTCAGCGTTACTTCCAGGATTTGCTCTGCCCCAAACGAGCTGTTTATAAC
AGCGATTTTGCCTAACATTATATCATAAGCGTGTTCCAATGTTTTTTTTTCTCTCTAAAAATACCTTTTATTGAC
TGTAATATTCCACTGTATGGTCCACAGTGTATATAACCAACAACCTCACCGTTGCGCATGTAGGCTGCCGGTGGCT
TTCTATAATCAAATCAATATTGTTCTGGGGCATCACAAGAGGAAGGGGGTCCCCXGGGGTTATGCAATGTGGC
TGCTTTGACTGTACTGGACATAAAAAATAAGTAAATGTTCTTCAATTTTACTTAAAAATGTGTCTTTAAATAAAAT
TTTTTCTCTAGGTT

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FIGURE 1395

MARGGAACKSDARLLLGRDALRPAPALLAPAVLLGAALGLGLGLWLGCRAGRQRTRHQKDDTQNLLKNLESNAQT
PSETGSPSRRRKREVQMSKDKEAVDECEPPSNSNITAFALKAKVIYPINQKFRPLADGSSNPSLHENLKQAVLPH
QPVEASPSSSLGSLSQGEKDDCSSSSSVHSATSDDRFLSRTFLRVNAFPEVLACESVDVLCIYSLHLKDLLHLD
TALRQEKHMMFIQIFKMCLLDLLPKKKSDDELYQKILSKQEKDLEEEKGLQVKLSNTEMSGAGDSEYITLADVE
KKEREYSEQLIDNMEAFWKQMANIQHFLVDQFKCSSSKARQLMMTLTERMIAAEGLLCDSQELQALDALERTMGR
AHMAKVIEFLKLQVQEETRCRLAAISHGLELLAGEGKLSGRQKEELLTQQHKAFWQEAERFSREFVQRGKDLVTA
SLAHQVEGTAKLTLAQEEEQRSFLAEAQPTADPEKFLEAFHEVLERQRLMQCDLEEEENVRATEAVVALCQELYF
STVDTFQKFVDALFLQTLPGMTGLPPEECDYLRQEVQENAAWQLGKSNRFRQQWKLQELLEQDQQVWMEECAL
SSVLQTHLREDHEGTIRGVLGRGLGGLTEESTRCVLQGHDLRLRSALRRALRGNALATLTQMRLSGKKHLLQELR
EQRALEQGSSQCLDEHQWQLLRALEARVLEEASRLIEEEAQQTRLQLQORLLAEAEVQQLLQQHMECAIGQALLV
HARNAATKSRAKDRDDFKRTLMEAAVESVYVTSAGVSRLVQAYYQQIGRIMEDHEERKLQHLKTLQGERMENYKL
RKKQELSNPSSGSRTAGGAHETSQAVHQRMLSQQKRFLAQFPVHQQMRLLHAQQQQAGVMDLLEAQLETQLQEAEO
NFI SELAALARVPLAESKLLPAKRGLLEKPLRTKRKKPLPQERGD LGVPNNEDLASGDQTSGLSLSKRLSQESE
AGDSGNSKKMLKRRSNL

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FIGURE 1396

CCGATCCGGGCGGTGCTGGCAGCCGGAGCGGCGGCGGGCGGGCCGAGCAGCCGGGGCAGCCGCGCGTGGGCATCC
ACGGGCGCCGAGCCTCCGTCCGTGTCTCTATCCCTCCCGGGCCTTTGTAGCGCGCCCGCTGGGAGCGGGGCCGA
GAGCGCCGGTTCCAGTCAGACAGCCCCGAGGTCAGCGGCCGGGCCGAGGGCGCCAGAGGGGGCCATGTCGTACC
AGGGCAAGAAGAGCATCCCGCACATCACGAGTGACCGACTCCTCATCAAAGGTGGACGGATCATCAACGATGACC
AATCCCTTTATGCTGACGTCTACCTGGAGGATGGACTTATCAAACAAATAGGAGAGAACTTAATCGTTCCTGGTG
GAGTGAAGACCATTGAAGCCAACGGGCGGATGGTTATCCCGGAGGTATTGATGTCAACACGTACCTGCAGAAGC
CCTCCAGGGGATGACTGCGGCTGATGACTTCTTCCAAGGGACCAGGGCGGCACTGGTGGGCGGGACCACGATGA
TCATTGACCATGTTGTTCTGAACCTGGGTCCAGCCTACTGACCTCTTTCGAGAAGTGGCAGCAAGCAGCTGACA
CCAAATCCTGCTGTGATTACTCCCTCCACGTGGACATCACAAGCTGGTACGATGGCGTTCCGGGAGGAGCTGGAGG
TGCTGGTGCAGGACAAAGGCGTCAATTCCCTTCCAAGTCTACATGGCCTATAAGGATGTCTACCAAATGTCCGACA
GCCAGCTCTATGAAGCCTTTACCTTCCCTTAAGGGCCTGGGAGCTGTGATCTTGGTCCATGCAGAAAATGGAGATT
TGATAGCTCAGGAACAAAAGCGGATCCTGGAGATGGGCATCACGGGTCCCGAGGGCCATGCCCTGAGCAGACCTG
AAGAGCTGGAGGCCGAGGCGGTGTTCCGGGCCATCACCATTGCGGGCCGGATCAACTGCCCTGTGTACATCACCA
AGGTATGAGCAAGAGTGCAGCCGACATCATCGCTCTGGCCAGGAAGAAAGGGCCCCTAGTTTTTGGAGAGCCCCA
TTGCCGCCAGCCTGGGGACCGATGGCACCCATTACTGGAGCAAGAACTGGGCCAAGGCTGCGGCGTTTCGTGACTT
CCCCTCCCCTGAGCCCGGACCCTACCACGCCCCGACTACTTGACCTCCCTACTGGCCTGTGGGGACTTGACAGGTCA
CAGGCAGCGGCCACTGTCCCTACAGCACTGCCCAGAAGGCGGTGGGCAAGGACAACCTTTACCCTGATCCCCGAGG
GTGTCAACGGGATAGAGGAGCGGATGACGGTCGTCTGGGACAAGGCGGTGGCTACTGGCAAAATGGATGAGAACC
AGTTTGTGCTGTGTCACCAGCACCAATGCAGCCAAGATCTTTAACCTGTACCCAAGGAAAGGGCGGATTGCCGTGG
GCTCGGATGCCGACGTGGTCATCTGGGACCCCGACAAGTTGAAGACCATAACAGCCAAAAGTCACAAGTCGGCGG
TGGAGTACAACATCTTCGAGGGTATGGAGTGCCACGGCTCCCCACTAGTGGTCATCAGCCAGGGCAAGATCGTCT
TTGAAGACGGAAACATCAACGTCAACAAGGGCATGGGCCGCTTCATTCCGCGGAAGGCGTTCCCGGAGCACCTGT
ACCAGCGCGTCAAAATCAGGAATAAGGTTTTTGGATTGCAAGGGGTTTTCCAGGGGCATGTATGACGGTCCTGTGT
ACGAGGTACCAGCTACACCCAAATATGCAACTCCCGCTCCTTCAGCCAAATCTTCGCCTTCTAAACACCAGCCCC
CACCCATCAGAAACCTCCACCAGTCCAACCTCAGCTTATCAGGTGCCAGATAGATGACAACAATCCCAGGCGCA
CCGGCCACCGCATCGTGGCGCCCCCTGGTGGCCGCTCCAACATCACCAGCCTCGGTGTAACGTGGATGCGCGGAG
GAGCTAGCCTGAAGGATTCTGGGAATCATGTCCATCCCTTTTCTGTGTCAGTGTGTTTGAACCCACAGTTTTAGT
TGGTGTGATGGAGGGAGGGGGAAGTCGAAGGATGCTCTTTCCCTTTTCTGTTTAGGAAGAAGTGGTACTAGTGT
GGTGTGTTTGTCTTGGAAATTCCTTGCCCCACAGTTGTGTTTCATGCTGAATCCACCTCGGAGCATGGTGTGTTTCAT
TCCCCCTTCTAGTGAACCACAGGTTTTAGCATTGCTTGTCTGTCCCTTCCACTTCTAACTCCACTGGCTCCA
TGATTCTCTGAGTGGTGGTTTCCTTTGCACCCTGTAGATGTTCTAGGATAGTTGATGCATGTTACTAAATTACGTA
TGCAAGTCTGTGAGTGCGTCTGAGGGGACATCGCCAAGGACTGACTGAGACACGATGCCGAGACCTCAAGCCCTG
AGGGGCAGTCCCAAAACCTTACAGTGAAGATGTTTACTCATTGCCCCACCTCTGGTCCACACTAGAAAGAAGC
TCGCCCCACCTCCACCTGTGAGATCCGTGAATTCTCGGAATGGCAGGGGAAGCCTTGCACTAGGTTGCAGAGAAG
CATCTCCACATCCTGTGTGTCAGAAACCTGGTCTCCGTGGCACTTGTAACCTACCGTGCTGTCTTCTGGTCTGTG
TGTGTTCTTCAAGCCAGCTCTAGGCTTCAGGCCGAGCCAGGTTACACTCAGAAAGAGGTCTCCCCATCCCCATT
CGGGGCTGACGATGGGGGGCTGATGGCTGCCCTGCGTGGCCTGAGTCCTGGTCCCTCTGAGGCAGTTGACGGGG
CAGTCAGATTTTTAAAGTTTTGTACAAAGTTTTCTTTGTAATCACTCCCATTTTTTACTTAACAACCAACTTGTT
GTGGCTCTTATTTCTGAATTCAAAGCTTGTGAAAAAATAAAGAAAATGAAGTGGCCACTGAAAAAAAAAAAAAA
AAA

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FIGURE 1397

MSYQGKKSIPHITSDRLLIKGGRIINDDQSLYADVLEDGLIKQIGENLIVPGGVKTIEANGRMVIPGGIDVNTY
LQKPSQGMTAADDFFQGTRAALVGGTTMIIDHVPEPGSSLLTSFEKWHEAADTKSCCDYSLHVDITSWYDGVRE
ELEVLVQDKGVNSFQVYMAYKDVYQMSDSQLYEFTFLKGLGAVILVHAENGDLIAQEQKRILEMGITGPEGHAL
SRPEELEAEAVFRAITTIAGRINCPVYITKVMSKSAADIIALARKKGPLVFGEP IAASLGTGTHYWSKNWAKAAA
FVTSPPLSPDETTDPDYLTSLACGDLQVTGSGHCPYSTAQKAVGKDNFTLIPEGVNGIEERMTVVWDKAVATGKM
DENQFVAVTSTNAAKIFNLYPRKGRIAVGSDADVVIWDPDKLKTITAKSHKSAVEYNIFEGMECHGSPLVVISQG
KIVFEDGNINVNKGMGRFIPRKAFPEHLYQRVKIRNKVFGLOQVSRGMYDGPVYEV PATPKYATPAPSAKSSPSK
HQPPP I RN LHQSNFSLSGAQIDDNNPRRTGHRIVAPPGGRSNITSLG

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FIGURE 1398A

TTTCTCCTTGGACCAAGATGACTGATGGAAAACCTCTCCACCTCTACAAATGGCGTAGCCTTCATGGGTATTCTGG
ATGGTCGACCAGGAAACCCCTTCAGAACCTGCAACACGTCAATCTCAAGGCGCCCCGACTCCTCTCCGCGCCTG
AGTACGGGCCCAAGCTGAACTCAGGGCTTTAGAAGACCGGCACAGCCTCCAGTCCGTGGACTCGGGGATTCTTA
CCCTGGAGATCGGGAACCCGGAGCCTGTACCCTGCAGCGCGGTCCACGTGAGGAGGAAGCAGTCCGACTCCGACC
TCATCCCCGAGCGGGCCTTCCAGAGCGCCTGCGCGCTGCCATCCTGTGCGCCACCAGCTCCTAGCAGCACCGAGC
GGGAACAGAGCGTGCCAAATCCTCCACGTTTCCCAGGACAGGCTATGACTCGGTAAAGCTCTATAGCCCCGACCT
CCAAAGCCCTGACCCGCAGCGATGATGTCTCCGTCTGCAGCGTGTCCAGTCTTGGGACAGAGCTGTCCACCACGC
TGTCGGTCAGCAATGAGGACATCTTGGACCTTGTGGTCACGAGCAGCTCCAGTGCCATTGTGACCCTGGAGAATG
ACGATGACCCACAGTTTACCAACGTACCTTGAGCTCTATCAAGGAAACCCGTGGCTTACACCAGCAGGACTGTG
TTCATGAAGCTGAGGAGGGGAGTAAATTGAAAATATTGGGGCCATTAGTAACCTTCTTTGCAAGGAACCTTGCTTG
CTAGAAAACAAAGTGCAAGGCTTGACAAACACAATGACTTGGGATGGAAGTTATTTGGGAAAGCGCCACTCCGAG
AGAATGCCCAGAAGGATTCAAAGAGAATACAGAAGGAATATGAAGACAAGGCTGGAAGACCTAGCAAGCCACCCCT
CTCCAAAGCAGAATGTGAGGAAGAATCTTGACTTTGAACCACTTCCACCACCGCACTCATCCTCGAGGACAGAC
CAGCAAATCTCCCAGCAAACACAGCTGAAGAAGCTCAGAAGCACAGACAGCAGTATGAAGAAATGGTGGTTTCAGG
CCAAAAGCGAGAGCTGAAAGAAGCCCAGCGAAGGAAGAAGCAGCTGGAAGAAAGATGCAGAGTCGAGGAAAGCA
TTGGAAACGCTGTGCTCACCTGGAATAATGAGATCTTACCTAACTGGGAAACAATGTGGTGCTCTAGAAAAGTTC
GAGATTTATGGTGGCAGGGAATCCCTCCAAGTGTGAGAGGCAAAGTCTGGAGCTTAGCCATTGGCAACGAGTTAA
ATATCACCCACGAGCTCTTTGACATCTGTCTTGCCCGAGCCAAGGAGAGGTGGCGGTCCCTTAGCACAGGAGGCT
CTGAAGTGGAGAACGAAGATGCTGGTTTTTCAGCAGCAGACAGAGAAGCCAGTCTGGAGCTTATTAACTGGACA
TTTCTAGAACATTTCTTAATCTCTGCATTTTCCAGCAAGGTGGTCCATATCATGACATGTTGCACAGTATTTTGG
GCGCTTATACCTTGTTACCGGCCAGATGTGGGTTATGTCCAGGGCATGTCCTTCATAGCAGCAGTGTGATCTTGA
ACTTAGATACTGCAGATGCCTTTATTGCCTTTTCTAACCTTCTGAATAAACCCCTGTCAAATGGCGTTTTTTAGAG
TGGACCATGGCCTTATGTTGACTTATTTTGTCTGCATTTGAAGTATTCTTTGAAGAAAATTTGCCGAAATTATTTG
CGCATTTCAAGAAGAACAACCTAACTCCAGATATCTACCTAATTGATTGGATCTTTACCTTATATAGTAAATCTC
TGCCCCCTCGACCTGGCCTGTCTGATCTGGGACGTGTTCTGTGCGGATGGGGAAGAGTTCCTGTTCCGCACGGCCC
TGGGCATCCTGAAGCTGTTTCGAGGACATCCTGACCAAGATGGACTTCATTCACATGGCCCAGTTCCTGACCCGGC
TGCCCGAGGACCTGCCCGCCGAGGAGCTGTTTGCTCCATCGCCACGATCCAGATGCAGAGCCGAAACAAGAAGT
GGGCTCAGGTACTGACTGCATTGCAGAAAGACAGCCGGGAAATGGAGAAGGGAAGTCCGTCCCTCCGACACTGAG
GCTGCAGCGGGAATTCGCACTCGGCACCAATCAGAGCCCCATGCCGCGGCCCTCTGTTGTTTCAGACTGACACC
CGGGCAGCCGAGAAGAACAGACGCTCTTTAAGTTTGATTCTTAACACTGGAGTTGGCCTTAAACAAAACAAACAC
AAAACTTTTTAAAGAATTAACCAAGGCTTAGCCTTAAGCAGCTCAGTGGAGGATGAGCTGCTGCGGACCACAG
CCAGCCACTGCATCTGCTGCACAGTTGAACGATGGGCAGTGGCTCACCCCCACTCCTTTATTTTCAGCAAAAGCTA
ATTAAATTGTAATGTTTCTATGTCAACTACTGGGAAGTATGTTACAGTCTTAGCCAGGATGCATGAGAGATGTTA
TTTGGGAGACTTGAGATGCTTTGGCTGATATTTACATGTTTTCGATAAGAAAGGGATCGCTGATTGAGTTATTGA
GATAGTTTTTCCAGAGCTGGAGGTCACGTTTCTAAACTCACCTACGAAAGATAGCATTAAAGGAACAGGGGCTC
TCTGAGGATGGCCACTGATGTGTGTTTGTGGATACCTGGGCATCGACCCAGCCTGCAGGTGAGCTCTGGGCCATG
TTGCCCTTGACACAGTCACAGTGTAGAGGCTGCAGGTGCACACGTGGGCTCCAGTGGGACTGCGCTCTGGGAGACT
GCTCCCTGGCATCGGTCTGCGGAGGTGGAAAGTTCGAGAGGAGGAGCTATTTGCGAGGAAGCCCTGTGGCAATA
GAGATAGGCTTAAAGCGGAGAGAACACAGAGTGAATCAGCCCCCTGTAAGTAAAAGGATAGAGAAAGAGATGT
GTGGCTGGGCCCTCTCCACCTGCCTGTTTCAGTGGAGGCCAGGGCAGCAGCCAGAACAGCACATGTGGGGGAGG
TGGCCCCCTTGTGCCAGCAGTGGCTCCTCTCTGCCTTTGAGCCCTGCACAGCTGGACCCATCCTAAGTGCCAGTGA
GTCCCTCACACATTTGACTTTAGAACGTGTGCTTCATGACCCGTTGTACAGACGGAGGAGCGAGCAACACACGTC
TAACAGCCTAGACAATCTCGTCAGATGCTCATACTGGACCATCAGCCTCCTCCATTTTAGCTGACTTTCCAGGGT
CGTTGGCAAATTTTTGTTCTGTCTTTTCTTGACTAATTGTAGAATTTGTGTGAGGACTTTGGTTATCCAAAA
TCACAGAAATGAACCGTTTTGTCAGCTGCGCAGTCTAAAGGGCAGGCCAGTGTCTGGAAGCAGGGCCACGTGGCG
GTCCGCTGGCAGGCTGGTCTGGGGAGCATTCTGCGGACCCGGTCACGGGCTTGGTTAGTCATGCGTACATGTGT
GCCTTGGGGTGCTCTGCACTCCACGGCCCTTCTCAGCCACACTTCCCACCCAGGGGGTGCCCCAGGCTGATCT
CAATTCATGATGTTGAGGGCTGTTTGGCTCTGTCTGTATAGCTTGTAACAGGAGCCTTGGGCTAGGGGCTGGGGAA

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FIGURE 1398B

GGAAAGCCGAGCTGGCATTTCGTTCTCTGGACTTTTTATGCCTGCCATAACCGCTAATGCTCCTCGAGGTGCAGGA
GCAGGTTGCTGAGCCAGTGGCTGCCCCGTGCCCTCCTTCCCAGCACTATCATGTGTCACGTTTCCCGGACTCTGC
CCCTACATCTCAGCTGAATCTCCAGGGAGGCTGCAGAGCATCGTGGAGACCACTTTCTGCCTCGGCCTTTAAATG
CTGACTCACCTCCTCTCGGAGGAGGCGTCCTGTCTTCACGGGGGGGTCCCGGTGGCCTCCAGACGTAGCCATTTT
CTGACATCAAGATGTTGAATGTAATCTGGTCTGAGCTGGGCCTGTGGGAGGGGCCGCTGAGGCCTGTGCGCTGT
TGTCCTCGCAGATGTACTTATTTTTGTTCATGATACGGGCGTTCGGTTCCTTAAAGATGTATATATTTTCTTACT
GTACATAAAGATGTTTCCTTAAGTCGTACAGAAGGTGGCGCGGCAAAGGGCCTCGTGCAGTGTGTTTCAAGATTGCCC
CTGGGGATCTTCTGTGTCTTCAGCGCCCAGCCCTGCGTGTTTCTGGTGAAGCAGTTTCACATCAGTCTCTCCAGA
TAGCACTACGATGTATTCCGCTTCTGAACAGGATCCCATGCCAGTGTGGAACACCTTCCCAATCTTAGTTTCAAGAA
GTGGCTTGATGACCTGTTTCAAGGGTCACATGAGGTCTCGCCAGTTTCTGGGTCTCTTCAGAGGCCAGAAAGT
TCTAAGTTCTGAGTCCCCGGCCAGGGTCCCTTAACACCTCGGCACAGAGGCTGTTGGCAAGTGTAGAGGCTGCCT
CTGTGTGTGGTTTAAAGTAAACTGGAAATGAGACATTGACGTGCTGCTCCTCCAGAGGTCTGCACACTCCACTTCA
CATGCCGTTGACTCTCACAGTCTAAGACTTCAGGGCCGGGACCTTTGTCCAGCCTGCACAGTAGAGTGAGGCTGC
CTCTCCCGCCAGGCATTGGGATCCCATTAGAAACGGCATTCACTTCAGAAGGTACTTTTTAACTGCTCAGTTTT
TGACTATTTTAAATAGTTTGCTGAAAACCTCCTGATAACACTTGCTACATATCATGTTTTAATTGCTTGTACAGTT
AACCTTTAATTTTATTTAGTAAAGTGATCAAAGTAGGACTTTTTTGAATTGTAAATAGGTGGTTTTATTAAATA
AAAGTCAATGTAAAATTGTT

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FIGURE 1399

MTDGKLSTSTNGVAFMGILDGRPGNPLQNLQHVNLKAPRLLSAPEYGPKLKLRALEDRLSLQSVDSGIPTLEIGN
PEPVPCSAVHVRRKQSDSDLIPERAFQSACALPSCAPPAPSSTEREQSVRKSSTFPRTGYDSVKLYSPTSKALTR
SDDVSVCSVSSLGTELSTTSLSVSNEDILDVVTSSSSAIVTLENDDDPQFTNVTLSSIKETRGLHQQDCVHEAEE
GSKLKILGPFNSNFFARNLLARKQSARLDKHNDLGWKLF GKAPLRENAQKDSKRIQKEYEDKAGRPSKPPSPKQNV
RKNLDFEPLSTTALILED RPANLPAPAEAAQKHRQQYEEMVVQAKKRELKEAQRKKQLEERCERVEESIGNAVL
TWNNEILPNWETMWCSRKVRDLWWQGIPPSVRGKVWSLAIGNELNITHELFDICLARA KERWRSLSLSTGGSEVENE
DAGFSAADREASLELIKLDISRTFPNLCIFQQGGPYHMLHSILGAYTCYRPDVG YVQGMSFIAAVLIILNLDTAD
AFIAFSNLLNKPCQMAFFRVDHGLMLTYFAAFEVFF EENLPKLFAHFKKNNLTPDIYLI DWIFTLYSKSLPLDLA
CRIWDVFCRDGEEFLFRTALGILKLFEDILTKMDFI HMAQFLTRLPEDLPAEELFASIATI QMSRNKKWAQVLT
ALQKDSREMEKGSPSLRH

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FIGURE 1400

GCTATGCGGGTGGACATCACGCTGCTATTCCGGGCCAGCGTCAAGACCGTGAAGACGCGGAACAAGGCGCTGGGA
GTGGCGGTGGGCGGCGGGGTCGATGGCAGCCGGGACGAGCTGTTCCGCCGAGCCCCCGGCCCAAGGGCGACTTC
TCCAGCCGGGCCCCGCGAAGTGATTTCTCACATTGGCAAACCTGAGAGATTTTCTTCTGGAACACAGGAAAGATTAT
ATTAATGCTTATAGCCATACCATGTCTGAATATGGGAGGATGACAGACACAGAACGAGACCAGATAGACCAGGAT
GCCAGATATTTCATGAGGACCTGTTTCAGAAGCAATTCAGCAACTACGAACAGAAGCTCACAAGGAGATACATTCC
CAGCAAGTGAAGGAGCACAGGACCGCTGTTTTGGATTTCATTGAAGATTACTTGAAAAGAGTATGTAACTTTAC
TCAGAACAGAGAGCCATCCGAGTTAAAAGAGTGGTGGATAAGAAAAGATTATCTAAGCTGGAACCAGAACCAAAT
ACAAAGACAAGAGAATCCACATCTTCTGAGAAAGTTTCACAGAGTCCTTCAAAAGACTCTGAAGAAAACCCTGCC
ACTGAAGAACGTCCAGAAAAAATTTTGGCTGAAACACAACCTGAATTGGGAACGTGGGGAGATGGCAAAGGCGAA
GATGAGTTATCCCCAGAAGAAATACAAATGTTTGAACAGGAAAATCAGCGACTAATTGGTGAAATGAACAGCTTG
TTTGATGAAGTGAGGCAAATCGAAGGGAGAGTGGTTGAGATTTCCAGACTCCAAGAGATATTCACGGAAGGTT
TTGCAACAGGAAGCTGAGATTGACAGCATTACCAGTTAGTTGTGGGGGCAACTGAAAATATCAAGGAAGGCAAC
GAAGACATAAGAGAGGCCATTAAAAACAACGCTGGCTTCCGCGTGTGGATCCTCTTCTTCTCCTCGTGATGTGCTCC
TTCTCCTTGCTCTTCTCGACTGGTACGACAGCTAGCCAGGGCCACGGGGGCCCAGCACGAGAGTCCTCATGGGC
ACTCACAGACTGCGTGCTTTCATGTACTTCCAGTGCTGGAGCATGGTATGACCAGATTTTATCACAGTGCCATTT
GAAGGGAAAGGAGTTCAGACAGACAGACGTATTCCCCAAAAGGGATACCCCAGGCCGATGGTGTTTCAGCCATTT
AGCAGCTGAAAAAGGAAACAGTGACACCAATGGGAGGCAGCCTGCGTAGCCCTCATCAGGCAAGACAGACTGAA
TGCAGGAGTGGGTGATTAGCTGCTCCTTGAACCTGAGGCTGCCTTGGCAGCAGGGGACAGCAGGCCTCAAGAGC
CCCTAATTGTCTCAGGGTTCAAAGGAAGACACTGACCTTCCCATCCCGGTAGCTTCAGGGAAGATCATAGTTAA
TAACGTCTCTCAACAAATGATTACTTCTTTGTTTCCTTGTTGGCTTCTTGTCTGTCTGAGTCAACGAATACACAGA
CTTACTGGATTATAGAAGAGAAAAATTCACATCTGCCTTGTTAATCTAATAAATATAATTACAGCCCCTTAAAAA
AAAAA

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FIGURE 1401

MAVDITLLFRASVKTVKTRNKALGVAVGGGVDGSRDELFRSPRPGDFSSRAREVISHIGKLRDFLLEHRKDYI
NAYSHTMSEYGRMTDTERDQIDQDAQIFMRTCSEAIQQLRTEAHKEIHSQQVKEHRTAVLDFIEDYLKRVCKLYS
EQRAIRVKRVVDKKRLSKLEPEPNTKTRESTSSEKVSQSPSKDSEENPATEERPEKILAETQPELGTWGDGKGED
ELSPEEIQMFEQENQRLIGEMNSLFDEVQRQIEGRVVEISRLQEIFTEKVLQQEAEIDSIHQLVVGATENIKEGNE
DIREAIKNNAGFRVWILFFLVMCSFSLFLDWYDS

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FIGURE 1402

AGCTTAGAGGCAAAGTTAAGAGACTCATCAGATTCTGAGCTGCTGCGGGATATTTTGCAGAAGACGTGCTGTATT
GCCCAGAAGCCATCGTGTCACTGGTCGGGGTCCCTGCGGAGGCTGGCTGCCTGCCGGGAGCACAAGCAGGCTCCTG
AGGTCTACCTGGCCTTTACCGTCCGCAACCCAGAGACGTGCCAGCTGTTACCACCGAGCTAGGCTGGACTGGGA
TCAGATGGGAAGTGGGAAGCTCATCATGACCAGAACTGTTTCCCTACAGAGAGCACTTGGAGATGGCAATGCTGA
ACCTCACACTGTAGGACTCACACACGACTCCAACGGGCTTGTGAGAATTAAGTCACTCTCGTGGGAAGAATTTTT
ATATGGGAAAGCGGATAAACTTTTCATTGCACTGGAATGTTTGGAAAATGTTAAATTCCAAATCAGGAACCACAA
ACTGCCCTCTAATAAGACATTGGCTATCTAAGCATGTGGGTGCCCCCTTCTGCCAGCAGTTCTGGTTCTTAAGA
AAATCACCATAAATCAGACATGAAAATTCTGGCTCCAAAAATAGCATTTTCTTTGTGCAAATAAAAACGAGTGTA
TCAAGTATGACGTTCCCCAACGTGGACACACTTGTTCCTCAGAAAGCCAAACCTGCTGCAGCTGCCACATCCC
TGGACACACTCGTTTCCTCACAAAGCCAAGCCCGCTACAGCTGCCACATCCCTGGACACACTCGGTTCCCTACAA
AGCCAAGCCCGCTGCAGCTGCCACATTCTGGGCTTATGGTGCAGCAGGTGCTTTTTTCAAGACAGGAATCAAAG
TGTAAGGAACATGGCAGAAAGGTGACACCTGGAGACCAAATGCAGGATGAGGAGTACTGCAGAGGTACAGGGAA
GTCACAGAACAGTAATACGCTGGCAGGGGCATGGGGCATGAAGAACAGAAGAAGACATTTGAGAAAAGCATCTGC
AAAACTACTAAAGAGCAGAGCTTACCTCATTTTCTGTCCCCACCCCATCCAGGTCACCACCTGGCTGACCCCAGG
TCCCCGACCCAACAACAACCCCTCCCAAGTCCCTAACTCCCTTACCTGGACTTGAGACCCTTCACACCCCAGCAG
TGCTCCGCCTCCAACCTTGACATCATGCTTTCTGGAAACTTCCCCGTGTGTCCCACTTTCCACACTTGGTGCCT
GGAGCACCTTCCGGCCTCTACATGCTGTACGTTCCCTGTGAGCACCTCCTCTCGGCCTCTGGCCAACACAGTC
CCACCCATCTGTGGGTAACAAGGGGGTGTGGGTGTTCTTTTCAGCCTTGCTAAACTGTCTGAATCAAGGATCACA
AACTACAGCCTTCAGGCCAAATCCAGCCCACAGCCTGTGTTTGTAATAAAGCTTTATTGGAACAAAGCCACACC
CCTTAATCTACAGATGATCTGTGGCTACTTTTACGCCACAACAGAGTACCATGGTTCTGACAGAGACTGGGGGAC
CCAGTCTAAATGACTTCCGACCTGGACCTTTACTGAAAATCCTCCAATCATTCTGTTGACAAGAATGATGTATT
ACTTTTTGCAATAAGAAACAAGTAACATTTGCAGAATTCCACCCATCTTTCAAGGCTGGTCCCAGAAGTTCCCTT
TGCCACACACCTACCTGATCCTGACAACCTTCTAAACTGCAGCCCTGCCACCCGGCTCCAGCATCATTTGTGG
AGTGTGAGCTCCATAAATCCAGAGGGCAGGTGGGGGTGTGTCTTAACATTCCCGAGCCTACTGTACCGAAACGGG
ACAGCAGAGTAGGCCAGCATCTGTGACTTCTGCTCCCTCACTAGCTTTTCCACCAGACCCACATGTTACCACCC
TGGCTGTGGGAAGCAGGGATCAGGGAGTGTGGCTCGGTGCCGTCTCCAGAACCCTGCCACCCCTGGCGTGGTG
CAGACATGTTTACCTGCAGCTGAGCTGCCAGTTCTCTGAGTCTCAAAGACCAGGCCGTTTTCTTCATGTTTCA
CTAGCTCATGTAACTGCAGAGAGAACCAAGGGAGCCTGAGAGCTGCCTGGGGAAGACACCAGACCCCTGGGGTG
CCCAGCTTGCTCCACCCACCCACGCTCAAGCCAGGCTGGGGGTGGAACAGGGGGTGTGGTTTCTGGGAGCT
GGTTCTTAGATTTGGCATCTGAAGCATATAAAGGTCTGGGGGAGTGCACATCAAAATGGCCAAATCAATTTGAGG
AGGGAGCCTTAAGGAAGTTTGTACGTTCTGTGCTGGATGCTCTTCAAGTACTGAAGAATTATTTTGCATGTTT
TTCTTAATTCATGGCCATGGAACAAGTAAAGGCAACCCCTGGGGACTGGTTCAGCACATAAAAGATGACTTTT
CTAGGACACC

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FIGURE 1403

MAPEENAGTELWLQGFERRFLAARSLRSFPWQSLEAKLRDSSDSELLRDILQKTVKHPVCVKHPPSVKYARCFLS
ELIKKHEAVHTEPLDELYEVLAEATLMAKESTQGHRSYLLPSGGSFTLSEITAIISHGTTGLVTWDATLYLAEWAI
ENPAAFTNRGBVLELGSGAGLTGLAICKMCRPQAYIFSDCHSRVLEQLRGNVLLNGLSLEADITANLDAPG

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FIGURE 1404

TTGTCCGTGGCTTCTCTGAGAAGAAAAGTTGAAAAAGGGTAAAAAGTTTTTCAGGAATATTTCGGGCTCTCTATTGCT
AAGCATAGCGAGTGTTCGGTTTTCTCTCTCCAACAGACATCGCTATTGCGGTTCCGAGGCAGTGGGAAGAGATGCG
GCCCCTGGACATCGTTCGAGCTGGCGGAACCGGAGGAAGTGGAGGTGCTGGAGCCCCGAGGAGGATTTTCGAGCAGTT
TCTGCTCCCGGTTCATCAACGAGATGCGCGAGGACATCGCGTTCGCTGACGCGCGAGCACGGGGCGGGCGTACCTGCG
GAACCGGAGCAAGCTGTGGGAGATGGACAATATGCTCATCCAGATCAAAAACGCAGGTGGAGGCCTCGGAGGAGAG
CGCCCTCAACCACCTCCAGAACCCGGGCGACGCGGCCGAGGGCCGGGCGGCCAAGAGGTGCGAGAAGGCCGAGGA
GAAGGCCAAGGAGATTGCGAAGATGGCAGAGATGCTGGTGGAGCTGGTCCGGCGGATAGAGAAGAGCGAGTCGTC
GTGAGCGCGGTTCGGCGTTTTCCAGCCAATGGATTCTGGTCAACTGGTGGAGATTGGCTGACACCCTGGAGAAGCC
GAAACCAGAGAGCCTTTTGTCTCTTTTTTCTGTCTATGCTCTGTCTCACTTAACACTACGTTTTCTGCTAT
GGTCTGTGGTTGATGACCTCAATATGAGTTTCGATTGTTAACGTGTTTTTGTGGGAAGTAATTTTGTGTTGAAA
ATGCTCTCACATACAGGAATTAGGGCCTAGATTGTAAGCTCTTGACGAGTCACATTTGTTCCCGGGCTTTGGTG
GTTATTTCTAAATTTTGGAGGTGCTTTGCTATTTCTTGTGTGACCTGATAGCTCCCTGGAACCTTTGGGTCTGTGT
GTGACACATGAGACTCACAGTTGGAGTTCTCCAGCTCTGGAGGTGCTGAAGGAGCTGCATTAATTCTGGAAGACG
ACTCCATGCAGCAACTACTGAAGAAAGGACCAGACTTCAACGGGGAGTGTGGATGGGCCGACCTGGCTGGGACTC
GTGAATCTGGAGAAGAGCTGGAGAATGGATAGTATTGTCTGTATTTGGAGACTTTAATTTCTGTGTGAGACCAA
GGAGGAGAGATGTGTTTTGTTCAAAATTTAAATTTGTTGTGGTACACTATCTTATGTAACCTGTCTGGTGAGTTT
GTTTGGACAACCTAACTCAGCTTTATTTGACATGGAACCTAAAATAGAAGATAAGATCTTGATATTCTGTACAAG
TTGATGTAATACCCTGATGCGTTTTAGAGGACTTGGCATAAAATGAAAGATTGGCAAAGGCCCTTGAGGGGCTTG
GGGATGACAGTATGGAACCTGTCTGCATTGGACCCTAACTGGACTAGAAGAGGCATCTTCAAGGTTTCATACGTTG
TCCAGCTGTAAGTTTCAATTTGAGTAGCAGACCTAACAAATATTTGAGGTCAGAACCCTACCATGTTAAACAAACA
AAAACCTTACCATGTTAATAAAAAGTATTCATTGCG

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FIGURE 1405

MRPLDIVELAEPEEVEVLEPEEDFEQFLLPVINEMREDIASLTREHGRAYLRNRSKLWEMDNMLIQIKTQVEASE
ESALNHLQNP GDAAEGRAAKRCEKAEEKAKEIAKMAEMLVELVRRIEKSESS

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FIGURE 1406

GTTGGGGCAACCTGTTGCTAGTCTGGTCGTTGGTGACAGCGAGGCTTCCGCGCTCGCTGCTGGTGAGCAGCCCCG
GCGTGCCCCGCGGGCTGGAAGAGGCGGCGGCGTGATCGGGCCCGTGGACGCGGACGAGGCGCGGGAGCCCCGCGA
GGAGCCGGGCAGCCCGCTGAGCCCCGCGCCCCGCGCGGCGCGAGAACTGGCCTCCCTGGAGCGCGAGCGCGC
CCGGGCGCACTGGCGGGCCCGCAGGAAGCTGCTGGAGATCCAGAGCCTGCTCGACGCCATCAAGAGTGAGGTGGA
GGCAGAGGAGCGGGGCGCCCGGGCCCCAGCACCCCGCCCGCTGCGGAGGCTGAGGAGCGGGTGGCTCGGCTGTG
CGCCGAAGCAGAGAGGAAGGCTGCGGAGGCGGCGGGATGGGCAGGCGGATCGTGGAGCTGCACCAGCGGATCGC
CGGCTGCGAGTGCTGCTGAGCCGGCGAGGCCGCGCGGGTCTGGAGCGGAGCGCGGGGAGTGTCCCGCGTGGA
AGGCGCTGGGTAGGCAGGGAGGGGAGCGCAGAGCCGTGCCACGCTCTCCGCGGAGTTGGTTTTATTCTTTTTTCA
TAGGTAATTAGAGAAAATAATTTGATATGTTGTTGTAAAGAGTCATGACCACTGGAAGTATTTTCAGGACGTAGA
CCTGGTGGGTCACTACGTGGGGGGAGAGAGGTGTGAAGCGGAGGTACATGCTGGAACGTGTGAATGTTGTTACG
AGATTGGAGCATTTCGATGACCTTCCTGCAGGTGGAAGCATTGTGCACAGGTGGTTGGGTTTGTGTTGACTCCCG
GATATGAGAATATCAAGCTCAAATTTATGTTGTGATGATGAATTTCTCCCACTTGTACTTTAGGTGGCCAACTG
ACGAAGTGTGTTACCTGATAAGGAGTCGTGGCTGCTTGGACAGGCTCAAACCAAGAGAGCCTTTCGTTTTGTCT
CCCCTGTTTTTCTGCCTGCGTTTTCTCCACATTAGCCACTCAATTTCCAGTACCATCCTGGCGGATGACTTCAGC
ATTAGATGGTCAGGTGTATTTTTTTATTAATAGGCGCATTTCAGTTTGGAAAAGACAGCTTTTCATTAATGTCCCA
CGTAAAGGAATATGGCCTATACAGTACGTACGCTGCTGCGTGGTCATATTTGTTCCCTGTGATCTTATTGTATTTT
CAAAGTTTGGAAGTATACTCGTGTGCTTTGCTGTTTTTTTATGCTTCCTGGAATTTGGGGACTCATGAGAGACTT
GAGGTTAGAGTTCTGCAAGTGAGAAGACACTACATGGTTGCAGCTGCCACATGAAGAACCCAAGCTCCTGTCAA
GTTGTGAATGCGACTTTGGATGAGATTAAGAAGGCCAGTGACGGTTGGTCTTGAAGAGTGGCAGTGTGTGGAT
TTGAGGACCTCTGCAGACCATCAGATCAAAGGAGGGAGAGCTGTTTTGGGTGTTTTGTTTTTTTTTGTATATAG
CATTTTGCTTTTTCTTGGAATGTAATTTTCTATGGCATGTAACTGGTGCACATCGTGTAACTGTCTGGTGAG
CAACCTACAATTGGGATGAGTTCTAGGTACATGTGTTTGCTGACTTTGGGGTAAACAACCTTTGTTATAATACAGT
CTCTGCCACAGATGCATGTGACCTCTTCAGGGGCCCCAGAGTGGCTGAGGAAGGAAAGCTTCAAGCTGGCCATGGG
GGTCCCAAACAGTCATTCCAGGCTTAGATGATGACTAGCCTAGGTCATCAGAGCCCAGACTCCACAGAGACTAAA
ATCAGAGCTCTGTCTTGTTATGATAAATTTTCAATTTGCTTGGAAAAAGAAATGCTGAAAGCCAGTGTGTTAGAATCT
TTGTGCAGATGACCAAAGCAATTGACTTGCCCAAGAAAAGGTAAGGTAAATAAACATTTTTTCAAATGAAAAAAA
AAAAAAAAAA

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FIGURE 1407

MRPVDADEAREPREEPGSPLSPAPRAGRENLASLERERARAHWRARRKLEIQSLLDAIKSEVEAEERGARAPAP
RPRAEAEERVARLCAEAERKAAEAARMGRRIVELHQRIAGCECC

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FIGURE 1408

ATGACCCACACCGTGCAAGGCTTGGATGTGGCTGGTCTTCTGAAAGCACTTCCTCCCATTAACTTCATTCTGT
TCAGCAGAAACAGACGAGGACCGTCAGGAACACCTGGGAAGGAACGAGAATGGAAGAGCAGAGCAAGGGGCAAGG
CATACAGCCCTGCAGGGAACCCAGAAGGCAGCCATCCCTGACAGTGAGAGCAGCTCTTGTCCTGGGAAGGCAGAT
GGGTCTGCCAGAAGCCTGGGCCTGGCCTTGTTGGCCTCACCGGCAAGCTCAAGCTTGCCCCCAGCTGCTGATC
AAGCAAGACATCGTGTCCCTTCTTAGCAACTTTGTACCAGGCTGTGCTTCCCAGAGCTGCTGTACCGCAGTTT
TTTGTGCAGGAGCCACAACACCTACCCATGCAGTCCATGGACTTCTCAGGTCTCTGGGGCCCCCTCCTGGCTGTG
GCCTCCCCCGGGCTGGGTTTCCTGGTGGCCCTCTGGAGTGCAAGAGACCTGGACTGGGCCGACTGGACCGTCCCA
CACCTGACCAACTGCTTATGCCTCGCATGTGTACAACGTTAACAGAGTTATTTGTATATTTGGCCCACCAGTT
AAAGAACCTCCTACAGATGTTACTCCCACTTTCTTGACAACAGGGGTGCTCAGTACTTTACGCCAAGCTGATTTT
GAGGCCCATAACTTCTCAGGGAGTCTGGGTATGCTGGGAAAATCAGCCAGATGCCGGTGATTTTGACACCATT
CATTTTGATAGGGACCCACTTCAAAGCAGCCTTCATGCCAGAGATCTGTGGTTATTCGAACCTTTATTACTAGT
GACTCCCTGACTGGTATACCTGCAACACCTGGCAATGAGATCCCTGTAGAGGTGGTATTAAAGATGGTCACTGAG
ATTAAGAAGATTCTTGGTATTTCTCGAATTATGTATGACTTAACATCAAAGCCCCCAGGAAGTACTGAGTGGGAG
TAA

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FIGURE 1409

MTHTVQGLDVAGLLKALPPIKLHSCSAETDEDROEHLGRNENGRAEQGARHTALQGTQKAAIPDSESSSCPGKAD
GSCQKPGPGLVGLTGKLLAPQLLIKQDIVSLLSNFVTRLCFPPELLSPQFFVQEPQHLPMQSMDFSGLWGPLLAV
ASPGLGFLVALWSARDLDWADWTVPHPDQLLMPRMCHNVNRVICIFGPPVKEPPTDVTPTFLTTGVLSTLRQADF
EAHNILRESGYAGKISQMPVILTPLHFDRDPLQKQPSCQRSVVIRTFITSDSLTGIPATPGNEIPVEVVLKMTVE
IKKIPGISRIMYDLTSKPPGTTEWE

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FIGURE 1410

GAGCGGCGCCGGCCTCGGCGGCTGAGGAAAGCAGGAGGAGGTGGTGGCGGCGGGAAGATGCCGCTCTTTGGCGTA
AATTGCAATCGATTAGGGATCGTTTCTCAGAATCAAGTTAGAAGTGAGAGTTCAGATAAGTGAGGCCGCCATTGC
TGCTTTGAACACCTCAGAAGGGGAGAAATGGATTTATCAGGAGTGAAAAAGAAGAGCTTGCTGGGAGTCAAAGAAA
ATAATAAAAAAGTCCAGCACTAGGGCCCCCTTACCTACCAAACGCAAAGACCGCTCAGATGAGAAGTCCAAGGATC
GCTCAAAAGATAAAAGGGGCCACCAAGGAGTCGAGTGAGAAGGATCGCGGCCGGGACAAAACGCGAAAGAGGCACA
GCGCTTCCAGTGGTAGCAGCAGTACCAGGTCTCGGTCCAGCTCGACTTCCAGCTCAGGCTCCAGCACCAGCACTG
GCTCAAGCAGTGGCTCCAGCTCTTCTCAGCCTCCAGCCGCTCAGGAAGCTCCAGCACCTCCCGCAGCTCCAGCT
CTAGCAGCTCTTCTGGCTCTCCAAGTCTTCTCGGCGCAGACACGACAACAGGAGGCGCTCCCGCTCCAAATCCA
AACCACCTAAAAGAGATGAAAAGGAGAGGAAAAGGCGGAGCCCATCTCCTAAGCCCACCAAAGTGCACATTGGGA
GACTCACCAGGAATGTGACAAAGGATCACATCATGGAGATATTTTCCACCTATGGGAAAAATTAAATGATTGACA
TGCCCGTGGAAGGATGCATCCCCATCTGTCCAAAGGCTATGCGTGCGTAGAGTTTGAGAATCCAGATGAAGCTG
AGAAGGCGCTGAAGCACATGGATGGAGGACAAATTGATGGCCAGGAGATCACTGCCACCGTCGTGCTGGCCCCCT
GGCCTAGGCCAACCCCCAGGAGATTACGCCCTCCAGGAGAATGTTGCCACCACCGCCTATGTGGCTCAGGTCTC
CCCCACGGATGAGGAGAAGGTCCCGCTCCCGAGGCGCAGGTCCCCCGTGCGCCGGAGATCACGGTCCCCGGGCC
GCCGCCGCCACAGGAGCCGCTCCAGCTCCAACCTCCTCCCAATAAACAGGCCACTGAAGCTCTCGCCCCCTGTAAC
TATACGCCACCCAGCTCAGTTTTGTCACTTTTCTAGCCAAAGCAAGACCAGTAGGAAAGCAAACCCCTGACTCTG
GCAGGATTTGCAGGCAGCAGGCAGCACCCCTCTGCCAGCCGGGCTCCGGCTGCAGAAAGTGCTGTTGGCTTGGATG
CTGTGTGCTGTCAAGATTCCCTCCGGTTTTCTGGCTAGAAAGCTCACCCGTTTCCGGTTTTAAGAGTCAGTTCA
GTGGCAGAGCCACCAGGGACAAGTGAGGCTCTTGGGGGTGGTTTGACCCCTGCTTACCTGGGAGCACACTTTTCCC
TTCCCCGATGACCTGGGATGGTGGCCAGGCCGTGCCCTTGCTGTTGCTGGGCAGTGTCTTTTGGAAAGGGAGCT
GCCCCAGGCTTTAGTGCAGCTGCCAACGCTGTTAGGCCTGGCCTCTCGAGGCCTCTTCTGACTTCAAGGGTCACA
GCCCCCAAAGATCCTCTCACCCATGGTAGTTGCTGCTCATGGTTCTGTCTGTCCGTGCACCGATGCATACACCA
CACCCACCGCTGTACTCTGAAATTGGCGAGTGAGTTGAGAGCCAGCTCTGCGGGGTGCATCACGCAGCCATGGTT
GTGCCTGTCCTTCATGGTGGTCTTTCAGGTTATCTTGGCAACATGTACATTGCTTTTATTTTTTTCTTTTTTGC
TTTTATTGTACAGTCAGTTCTATAAAATTCTCTTTTGAGTTTTATACCTTTGTAGCATTTTAGATGACATTGTG
TTTGTACTTTGTTGTGTAGAGTGGAAGAATTGTGTTGAATAAACCCAAGATCGGAATGC

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FIGURE 1411

MDLSGVKKKSL LGVKEN NKKSSTRAPSP TKRKDRSDEKSKDRSKDKGATKESSEKDRGRDKTRKRHSASSGSSST
RSRSSSTSSSGSSTSTGSSSGSSSSSASSRSGSSSTSRSSSSSSSSGSPSPSRRRHDNRRRSRSKSKPPKRDEKE
RKRRSPSPKPTKVHIGRLTRNVT KDHIMEIFSTYGKIKMIDMPVERMHPHLSKGYACVEFENPDEAEKALKHMDG
GQIDGQEITATVVLAPWPRPTPRRFSPPRMLPPPPMWLRSPPRMRRRSRSPRRRSPVRRRSRSPGRRRHRSS
SNSSQ

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FIGURE 1412

CTCCACCCTGTGGGCTGTAAGCAAGCTCAGGCTAGTCTCCCCACTGGGGGCTGTGCCCCTCCCTGGGACGGTTCC
GTGGGCAGCCCCATCACTGTGTTCAATAGTGTGAGAATGTAGCTGCGTGGGGACAATCCATCGTGGAGTGTTC
TCAGCTTAGGTCTGGACAGGAGACTTGGCGGGAGATGCTCCAGGATGTGGGTGATTCTGTACCTGGGGAGGCTAT
CTCTGACCTCCCGACAGGGGACACTCCCAGGCCAGCCAGGGGTCAGGGGCAGAGGTGCACACCTCAGCATGAGC
CAAGACTGGGGTCAGGGAGCAGGTGTGGTTTGAGCCAGGACCTGGGGCGGGGTGGGGCCGGGGCCTTTCTGCCT
CATTTGCTTTCAATGAAAGCCTCAAAGCAGCCAAAACCAGGCTTTCCCCCTTCCTCGAGTTTGAATATCCAGAAT
CTTTTGTACTTCTTGTGGTTAAATTGTTTATTTTTGTAAAAATAAAATAAAATTAGTTAATAA

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FIGURE 1413

ATAGAAGACTACTCGGAGAGCGCTGCCTCTGGGTTGGCGGGCTGGCAGGCTGTAGCCGAGCGCGGGCAGGACTCG
TCCCGGCAGGGTTCCAGAGCCATGGGAGCGGAAAGGAGGCTGCTGTGCGATTAAGGAGGCCTTTCGGCTGGCGCAG
CAGCCGCACCAGAACCAGGCGAAGCTGGTGGTGGCGCTGAGCCGCACCTACCGCACGATGGATGATAAGACAGTT
TTTCATGAGGAGTTCATTACCTTAAATATGTTATGGTGGTCTATAAACGTGAACCAGCTGTGGAGAGGGTA
ATAGAATTTGCAGCAAAGTTTGTACCTCATTTACCAATCAGATATGGAAGATGATGAGGAAGAGGAAGATGGT
GGCCTTTTAAATTATTTGTTTACTTTTCTCTTAAAGTCTCATGAAGCAAACAGCAATGCAGTGAGATTTAGAGTG
TGCCTGCTCATAAACAAAGCTTTTGGGAAGTATGCCAGAAAATGCTCAGATTGATGATGATGTGTTTGATAAAATT
AATAAAGCCATGCTTATTAGATTGAAAGATAAGATTCCAAATGTGAGAATACAGGCAGTTCTGGCGCTTTCACGA
CTTCAGGATCCCAAGGATGATGAATGCCAGTGGTTAATGCATATGCTACTTTGATTGAAAATGATTCAAATCCA
GAAGTTAGACGGGCAGTGTTATCATGTATTGCACCATCAGCAAAGACTTTGCCAAAAATTGTAGGGCGCACCAAG
GATGTGAAAGAGGCTGTGAGAAAGCTGGCTTATCAGGTTTTAGCTGAAAAGGTTTCATATGAGAGCTATGTCCATT
GCTCAGAGAGTAATGCTCCTTCAACAAGGTCTTAATGACAGATCAGATGCTGTGAAACAAGCTATGCAGAAGCAT
CTTCTTCAAGGCTGGTTACGGTTCTCTGAAGGAAATATCTTAGAGTTGCTCCATCGGTTGGATGTAGAAAATTCT
TCTGAAGTGGCAGTCTCTGTCTCAATGCCTTGTTTTCAATAACTCCTCTCAGTGAACCTGGTGGGACTCTGTAAA
AACATGATGGCAGGAAATTGATTCCAGTGGAAACATTAACCTGAAATTGCTTTGTATTGGTGTGCCCTTTGT
GAATATTTGAAATCAAAAGGAGATGAAGGTGAAGAATTTTAGAGCAGATTTTGCCAGAGCCTGTAGTATATGCA
GACTATTTATTGAGTTACATCCAGAGCATTCCAGTTGTTAATGAAGAACACAGAGGTGATTTTCTATATTGGA
AATTTGATGACAAAAGAATTCATAGGTCAACAATTGATTCTAATTATTAAGTCTTTGGATACCAGTGAAGAAGGA
GGAAGAAAAAACTGCTGGCTGTTTTACAGGAGATTCTATTTTACCCACAATCCCAATATCCCTGGTTTTCTTT
CTTGTTGAAAGACTACTCCACATCATTATAGATGATAATAAGAGAACACAAATTGTTACAGAAATTATCTCAGAG
ATTCGGGCGCCCATTGTTACTGTTGGTGTTAATAACGATCCAGCTGATGTAAGAAAGAAAGAACTCAAGATGGCT
GAAATAAAAGTTAAGCTTATCGAAGCCAAAGAAGCTTTGGAAAATTGCATTACCTTACAGGATTTTAATCGGGCA
TCAGAATTTAAAGAAGAAATAAAAGCATTAGAAGATGCCAGAATAAACCTTTTGAAAGAGACAGAGCAACTTGAA
ATTAAAGAAGTCCACATAGAGAAGAATGATGCTGAAACATTGCAGAAATGCTCTTATTTATGCTATGAACTGTTG
AAGCAGATGTCCATTTCAACAGGCTTAAGTGAACCATGAATGGAATCATCGAATCTTTGATTCTTCTCGGAATA
ATAAGTATTCATCTGTTGTAAGAAACCTGGCTGTTTTATGCTTGGGATGCTGTGGACTACAGAATCAGGATTTT
GCAAGGAAACACTTCGTATTACTATTGCAGGTTTTGCAAATTGATGATGTGACAATAAAAATAAGTGCTTTAAAG
GCAATCTTTGACCAACTGATGACGTTCCGGATTGAACCATTTAAAACTAAAAAAATCAAAACACTTCATTGTGAA
GGTACAGAAATAAACAGTGATGATGAGCAAGAATCAAAAGAAGTTGAAGAGACTGCTACAGCTAAGAATGTTCTG
AAACTCCTTTCTGATTTCTTAGATAGTGAGGTATCTGAACCTTAGGACTGGAGCTGCAGAAGGACTAGCCAAGCTG
ATGTTCTCTGGGCTTTTGGTCAGCAGCAGGATTCTTTCTCGTCTTATTTTGTTATGGTACAATCCTGTGACTGAA
GAGGATGTTCAACTTCGACATTGCCTAGGCGTGTTCTTCCCGTGTTTGCTTATGCAAGCAGGACTAATCAGGAA
TGCTTTGAAGAAGCTTTTCTTCCAACCCTGCAAACACTGGCCAATGCCCTGCATCTTCTCCTTTAGCTGAAATT
GATATCACAAATGTTGCTGAGTTACTTGTAGATTGACAAGACCAAGTGGATTAAATCCTCAGGCCAAGACTTCC
CAAGATTATCAGGCCTTAACAGTACATGACAATTTGGCTATGAAAATTTGCAATGAGATCTTAACAAGTCCGTGC
TCGCCAGAAATTCGAGTCTATACAAAAGCCTTGAGTTCTTTAGAACTCAGTAGCCATCTTGCAAAAGATCTTCTG
GTTCTATTGAATGAGATTCTGGAGCAAGTAAAAGATAGGACATGTCTGAGAGCTTTGGAGAAAATCAAGATTCAG
TTAGAAAAAGGAAATAAAGAATTTGGTGACCAAGCTGAAGCAGCACAGGATGCCACCTTGACTACAACACTACTTC
CAAAATGAAGATGAAAAGAATAAAGAAGTATATATGACTCCACTCAGGGGTGTAAAAGCAACCCAAGCATCAAAG
TCTACTCAGCTAAAGACTAACAGAGGACAGAGAAAAGTGACAGTTTCAGCTAGGACGAAACAGGAGGTGTCAGACT
GCTGAAGCCGACTCTGAAAGTGATCATGAAGTTCCAGAACCAGAATCAGAAATGAAGATGAGACTACCAAGACGA
GCCAAAACCGCAGCACTAGAAAAAGTAACTTAACTTGCCCAATTTCTCAATGAAGATCTAAGTTAGGAAAGA
CGATGGAGGTGGAATCCTTTAAGATTATGTCCAGTTATTTGCTTTAATAAAGAAGAAGTTACCCTTGTCAAATC
AG

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FIGURE 1414

GGCACGAGAACATGCGGGCTCCACTAGGGGGTATGTTTTCTGGGCAGCCACCCGGTCCCCCTCAGGCCCGCCGG
GCCTTCCGGGCCAAGCTTCGCTTCTTCAGGCAGCTCCAGGCGCTCCTAGACCTTCCAGCAGTACTTTGGTGGACG
AGTTGGAGTCATCTTTCGAGGCTTGCTTTGCATCTCTGGTGAGTCAGGACTATGTCAATGGCACCGATCAGGAAG
AAATTGGAACCGGTGTTGATCAGTGTATCCAGAAGTTTCTGGATATTGCAAGACAGACAGAATGTTTTTCTTAC
AAAAAAGATTGCAGTTATCTGTCCAGAAACCAGAGCAAGTTATCAAAGAGGATGTGTCAGAACTAAGGAATGAAT
TACAGCGGAAAGATGCACTAGTCCAGAAGCACTTGACAAAGCTGAGGCATTGGCAGCAGGTGCTGGAGGACATCA
ACGTGCAGCACAAAAAGCCCGCCGACATCCCTCAGGGCTCCTTGGCCTACCTGGGAGCAGGCATCTGCCAACATC
CCTGCACCTCTGAAGCCAACGTGAGCAAAGGGCAGAGGCAGTTGGCCTATGAGTGGGCTGATGCGTGAAGGXTGGC
CACACATTCCCTTCTGTGGACTTGACATTTTTGGAAGAACTCTTTGCCAGATAATGAGTTCATTTTAGTTTTATG
CTCCATTGAAAAATTTTCCACTATTTTATAAGCTGTTAATTTCTTGAGTACTTTATAACATGTCTGTAGCTTG
GATAAACCAAGTAAGTATTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1415

MAAPLGGMFSGQPPGPPQAPPGLPGQASLLQAAPGAPRPFSSSTLVDELESSFEACFASLVSQDYVNGTDQEEIRT
GVDQCIQKFLDIARQTECFFLQKRLQLSVQKPEQVIKEDVSELRNELQRKDALVQKHLTKLRHWQQVLEDINVQH
KKPADIPQGSLAYLGAGICQHPCTSEANVSKGQRQLAYEWADA

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FIGURE 1416

CCTAGACGCACGTCCGCTCGCCCCGGCGCCCGAGCCAGTCCGCGCGCACGCCGTCTGCGCCCCGAAAGCCCCGCC
CAAGGCGCGCCCGCCACCGCTCTCCACGTGCTCGCTGGAGGGCGGTGCGAGGGGCCGAGCCGACAAGATGTTCT
TGCTGCCTCTTCCGGCTGCGGGGCGAGTAGTCTGCGACGTCTGGCCGTGAGACGTTTCGGGAGCCGGAGTCTCT
CCACCGCAGACATGACGAAGGGCCTTGTTTTAGGAATCTATTCCAAAGAAAAAGAAGATGATGTGCCACAGTTCA
CAAGTGCAGGAGAGAATTTTGATAAATTGTTAGCTGGAAAGCTGAGAGAGACTTTGAACATATCTGGACCACCTC
TGAAGGCAGGGAAGACTCGAACCTTTTATGGTCTGCATCAGGACTTCCCCAGCGTGGTGCTAGTTGGCCTCGGCA
AAAAGGCAGCTGGAATCGACGAACAGGAAAACTGGCATGAAGGCAAAGAAAACATCAGAGCTGCTGTTGCAGCGG
GGTGCAGGCAGATTCAAGACCTGGAGCTCTCGTCTGTGGAGGTGGATCCCTGTGGAGACGCTCAGGCTGCTGCGG
AGGGAGCGGTGCTTGGTCTCTATGAATACGATGACCTAAAGCAAAAAAGAAGATGGCTGTGTGCGGCAAGCTCT
ATGGAAGTGGGGATCAGGAGGCCTGGCAGAAAGGAGTCTGTTTGCTTCTGGGCAGAACTTGGCAGCCCAATTGA
TGGAGACGCCAGCCAATGAGATGACGCCAACAGATTGCTGAAATTATTGAGAAGAATCTCAAAAGTGCTAGTA
GTAAAACCGAGGTCCATATCAGACCCAAGTCTTGATTGAGGAACAGGCAATGGGATCATTCTCAGTGTGGCCA
AAGGATCTGACGAGCCCCCAGTCTTCTTGAAATTCACTACAAAGGCAGCCCCAATGCAAACGAACCACCCCTGG
TGTTTGTTGGGAAAGGAATTACCTTTGACAGTGGTGGTATCTCCATCAAGGCTTCTGCAAATATGGACCTCATGA
GGGCTGACATGGGAGGAGCTGCAACTATATGCTCAGCCATCGTGTCTGCTGCAAAGCTTAATTTGCCCATTAATA
TTATAGGTCTGGCCCCCTCTTTGTGAAAAATATGCCAGCGGCAAGGCCAACAGCCGGGGGATGTTGTTAGAGCCA
AAAACGGGAAGACCATCCAGGTTGATAACACTGATGCTGAGGGGAGGCTCATACTGGCTGATGCGCTCTGTTACG
CACACACGTTTAAACCGAAGGTCATCCTCAATGCCGCCACCTTAACAGGTGCCATGGATGTAGCTTTGGGATCAG
GTGCCACTGGGGTCTTTACCAATTCATCCTGGCTCTGGAACAACTCTTCGAGGCCAGCATTGAAACAGGGGACC
GTGTCTGGAGGATGCCTCTCTTCGAACATTATACAAGACAGGTTGTAGATTGCCAGCTTGCTGATGTTAACAACA
TTGGAAAATACAGATCTGCAGGAGCATGTACAGCTGCAGCATTCTGAAAGAATTCGTAACATCATCCTAAGTGGG
CACATTTAGACATAGCAGGCGTGATGACCAACAAAGATGAAGTTCCTATCTACGGAAAGGCATGACTGGGAGGC
CCACAAGGACTCTCATTGAGTTCTTACTTCGTTTCAGTCAAGACAATGCTTAGTTTACATACTCAAAAATGTCTT
CACTCTGTCTTAAATTGGACAGTTGAACTTAAAAGGTTTTTGAATAAATGGATGAAAATCTTTTAAACGGAGACAA
AGGATGGTATTTAAAAATGTAGAACACAATGAAATTTGTATGCCTTGATTTTTTTTTTTCATTTACACAAAGATT
ATAAAGGTAAAGTTAATATCTTACTTGATAAGGATTTTTAAGTACTCTATAAATGATTAAAAATTTTAGAACTT
CCTAATCACTTTTCAGAGTATATGTTTTTCATTGAGAAGCAAAATTGTAACCTAGATTTGTGATGCTAGGAACAT
GAGCAAACCTGAAAATTACTATGCACTTGTCAGAAACAATAAATGCAACTTGTTGTG

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FIGURE 1417

ATTCGGAGCTGCGGGAGCCGGGCTGGCAGGAGCAGGATGGCGGCGGCGGCGGCTGCAGGCGAGGCGCGCCGGGTG
CTGGTGTACGGCGGCAGGGGCGCTCTGGGTTCTCGATGCGTGACGGCTTTTCGGGCCCCGCAACTGGTGGGTTGCC
AGCGTTGATGTGGTGGAGAATGAAGAGGCCAGCGCTAGCATCATTGTTAAAATGACAGACTCGTTCACTGAGCAG
GCTGACCAGGTGACTGCTGAGGTTGGAAAGCTCTTGGGTGAAGAGAAGGTGGATGCAATTCTTTGCGTTGCTGGA
GGATGGGCGCGGGGCAATGCCAAATCCAAGTCTCTCTTTAAGAACTGTGACCTGATGTGGAAGCAGAGCATATGG
ACATCGACCATCTCCAGCCATCTGGCTACCAAGCATCTCAAGGAAGGAGGCCTCCTGACCTTGGCTGGCGCAAAG
GCTGCCCTGGATGGGACTCCTGGTATGATCGGGTACGGCATGGCCAAGGGTGCTGTTACCAGCTCTGCCAGAGC
CTGGCTGGGAAGAACAGCGGCATGCCGCCCGGGGCGAGCCGCCATCGCTGTGCTCCCGGTTACCCTGGATACCCCG
ATGAACAGGAAATCAATGCCTGAGGCTGACTTCAGCTCCTGGACACCCTTAGAATTCCTAGTTGAAACTTTCCAT
GACTGGATCACAGGGAAAAACCGACCGAGCTCAGGAAGCCTAATCCAGGTGGTAACCACAGAAGGAAGGACGGAA
CTCACCCAGCATATTTTTAGGCCTCATCTCAGTGCCTATGAGGGGCTGCCAGAAAAGTCACTAACCTGTCTCA
GTGTGGCCTTGTCAGCCTTGTTGTTTTCTGTAACCCCTGTTTGTGGTACGAGATAATGAGTCCTATTTTTCTCTC
ACATAATATGCATTTGCTCTCCTAGGACAGTGTAAATACATTTATGTGAAGTAAAGACATGCCGAGACTGGTGGCCT
GCAAATAGCATCCGTTGATCTGTGTAACTGCATAGGGAGGGCTCTGCATAGCACCTGCTATAGCGGTGTCATGT
TGGATCGCTTTTGAGTGTTCATCTGTCCTTGACAGTGGCTGTCATCTTGACTACTTTGTTGATTGTTGGTAT
TGGGGACATTTTAAAGGCTGAGTTATTTTTGAATGTCATGTTTATGTCATAGACGTAGTTTTCGCATCCTTGAAT
TAAACTGCCTTAACTCCTTTTGTGGTATAAGCAAACTACATGGACTCTGTCCTGGTATCCTTTTCCTGTGTGGT
TGCCCCGTGTCCTCTGGCCTAGGGTTAAGTGTGCAAGATAACTACTCGTGAGTATTCAGAATGTTGTTTCTAATA
AATGCACTTGTGTCTGTCTCTTTAATCAAATCACATCTTATATACAGCAGTCAGAGATGAGTATACTAGAATC
ATGGATTGCTGGAGGTCTTTAATCTGATGTTCTCAGAAGGGGTGGATTTAAATCCTGAAATAAATATTTCAAC
AC

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FIGURE 1418

ACAGTCCCTCCGGGTGGCGGGGCGCCCCGAGCGTGGCAGCGCGCTAGGCGGCAGCAGCGGGCGCGGAGCGGGGCG
CGGCCGCCGCGCGTTCCCTCTTGCGGGGTGGCCGGCCGGGGCGGGGCGCGGCGCTCGGGCTCGAGGCATTTCGG
AGCTGCGGGAGCCGGGCTGGCAGGAGCAGGATGGCGGCGGCGGCGGCTGCAGGCGAGGCGCGCCGGGTGCTGGTG
TACGGCGGCAGGGGCGCTCTGGGTTCTCGATGCGTGCAGGCTTTTCGGGCTCGCAACTGGTGGGTGCCAGCGTT
GATGTGGTGGAGAATGAAGAGGCCAGCGCTAGCATCATTGTTAAAATGACAGACTCGTTCACTGAGCAGGCTGAC
CAGGTGACTGCTGAGGTTGAAAAGCTCTTGGGTGAAGAGAAGGTGGATGCAATTCTTTGCGTTGCTGGAGGATGG
GCCGGGGGCAATGCCAAATCCAAGTCTCTCTTTAAGAAGTGTGACCTGATGTGGAAGCAGAGCATATGGACATCG
ACCATCTCCAGCCATCTGGCTACCAAGCATCTCAAGGAAGGAGGCCTCCTAACCTTGGCTGGCGCAAAGGCTGCC
CTGGATGGGACTCCTGGTATGATCGGGTACGGCATGGCCAAGGGTGTGTTTACCAGCTCTGCCAGAGCCTGGCT
GGGAAGAACAGCGGCATGCCGCGGGGCGAGCCGCCATCGCTGTGCTCCCGGTTACCCTGGATAACCCGATGAAC
AGGAAATCAATGCCTGAGGCTGACTTCAGCTCCTGGACACCCTTAGAATTCCTAGTTGAACTTTCCATGACTGG
ATCACAGGGAAAAACCGACCGAGCTCAGGAAGCCTCATCTCAGTGCCTATGAGGGGCCTGCCAGAAAAGTCACTA
ACCTGTCTCAGTGTGGCCTTGTCCAGCCTTGTGTTTTCTGTAACCCCTGTTTGTGGTACGAGATAATGAGTCCTA
TTTTTCTCTACATAATATGCATTTGCTCTCCTAGGACAGTGTAAATACATTTATGTGAAGTAAAGACATGCGAGA
CTGGTGGCCTGCAAATAGCATCCGTCAATCTGTGTAACTGCATAGGGAGGCTCTGCATAGCACCTGCTATAGCG
GTGTCATGTTGGATCGCTTTTGTGACTGTTCACTGTCCTTGACAGTGGCTGTCATCTTGACTACTTTGTTGATT
TGTGGTATTGGGGACATTTTAAAGGCTGAGTTATTTTGAATGTCATGTTTATGTCATAGACGTAGTTTTCGCA
TC

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FIGURE 1419

GGCACGAGCGCAACCACAGCGCGCAGGGCAGGCGCGAGCTGGCCTCTGAGCCCCGGCCTCGGACCGCCCACTCCA
CTCCCGGCACGCCCCGGTGCCGCCCTTCCGGCTCCAGTCCCCGGGCTCGGCCTCGGCGAGGTGTAATTCGCAGCGCG
GGCCGGCCCCGGAGGCTCTCGGCGAGCGCGGCGCGGTAACAAGTGGGCGAGGATCCCGTACGAGATCAAGAAGGT
GTTCCGCCAGCCTCCCGCAGGTGGAGAGGGGCGTCTCCAAGATCATCGGCGGCGACCCCTAAGGGCAACAATTTTCT
GTACACCAATGGAAAGTGCGTCATCCTAAGGAACATCGACAACCCAGCCCTTGCTGACATCTACACAGAGCACGC
CCATCAGGTGGTGGTGGCCAAAGTATGCGCCAGCGGATTCTACATTGCCTCCGGAGATGTGTCTGGGAAGCTGAG
GATCTGGGATACCACGCAGAAGGAGCACCTGTTGAAGTATGAGTACCAGCCTTTTCGCTGGGAAGATCAAAGACAT
TGCTTGGACTGAAGACAGTAAGAGGATCGCCGTGGTTCGGGGAAGGAAGGGAGAAGTTTGGAGCAGTCTTCCTCTG
GGATAGTGGCTCTTCTGTGGGCGAGATTACAGGACACAACAAGTTCATCAACAGCGTGGACATCAAGCAGAGCCG
GCCATACCGGCTGGCCACGGGAAGCGATGATAACTGCGCGGCAATTCTTTGAGGGACCCCCATTCAAGTTCAAGTT
CACAATTGGCGACCACAGCCGCTTTGTCAACTGTGTGCGATTCTCTCTGATGGGAACAGATTGGCCACAGCCAG
TGCTGACGGCCAGATATACATCTATGACGGGAAGACTGGGGAGAAGGTGTGCGCGCTGGGCGGAAGCAAGGCCCA
CGACGGTGGGATTTACGCAATTAGTTGGAGTCCCGACAGCACCCATTGCTTTCTGCTTCTGGGGACAAAACCTC
CAAGATTTGGGACGTCAGCGTGAACCTCCGTGGTTCAGCACATTTCCCATGGGCTCCACGGTTCAGGACAGCAGCT
GGGCTGCCTATGGCAGAAGGACCACCTGCTCAGTGTCTCCCTGTCCGGGTACATCAACTATCTGGACAGAAACAA
CCCCAGCAAGCCCCCTGCACGTCATCAAGGGTTCACAGTAAATCGATCCAGTGTCTGACGGTGCATAAAAACGGCGG
CAAGTCTTACATTTACTCTGGGAGCCACGACGGACACATTAATTACTGGGATTGAGAGACGGGGGAGAACGACTC
CTTCGCTGGGAAAGGCCACACGAACCAGGTGTCCAGGATGACCGTGGATGAGTCGGGGCAGCTCATCAGCTGCAG
CATGGACGACACCGTGCCTGACACCAGCCTCATGCTGCGGGACTACAGCGGACAAGGAGTTGTGAAACTGGACGT
TCAGCCAAAGTGCGTAGCCGTGCGCCCCGGGGGATACGCCGTGGTGTGTGATTGGACAGATTGTCTCTGTGAA
GGATCAGAGGAAGTGCTTCAGCATCGACAACCCCGGCTACGAGCCCGAAGTTGTGGCAGTGCACCCCGGCGGGGA
CACGGTGGCAATTGGGGGTGTGGACGGCAACGTCCGCCTGTATTCCATCCTGGGCACCACGCTGAAGGATGAGGG
CAAGCTCCTAGAGGCCAAGGGCCCCGTGACCGACGTGGCCTACTCCACGACGGCGCCTTCCTCGCGGTGTGCGA
CGCCAGCAAGGTGGTTCAGTGTTCAGCGTTGCTGACGGCTACTCGGAGAACAAATGTTTTTATGGACACCATGC
AAAAATCGTCTGCCTGGCCTGGTCCCCAGACAATGAACACTTTGCCTCCGGTGGCATGGACATGATGGTGTATGT
TTGGACCCTGAGTGACCCGGAAACCAGAGTCAAGATCCAAGATGCACACCGGCTGCACCATGTCAGCAGCCTGGC
CTGGCTGGACGAGCACACGCTGGTTCAGACCTCCCATGATGCCTCTGTCAAGGAGTGGACAATCACCTACTGAGG
AGCCCCACCCCGCCTCTGGATGGACCGAATCAGGCACTAGAGTTTAACTGCAGCGGAACATGTCAATTTCTCTAT
TTCTGTGACGCGCCCCCATGCCCCACCCACCACAAGAGGCAGGAGGGCCCCAGTCATGACCCCTCGTCTCTGCAG
GGTGTCTGTACACGTTCTTCTGAAAAGCTTTAGACAGTAACAGTTTGCACATGAAAAATAAAGCGAGCACCTAAAC
AATGTGTGGAGCATAACTAAAAACCCACAGCCCAACCAAACCTTGAGAATGCGAAACATTCCAGAGGCAGTAGCCT
CCAAAGCACACAGAGCCCCCTGGCCCCGCGCGGCTCTCACTATCTGTGAGGGGAGGTGTACAGGTGAATGAGCC
GGGGGGCTCATGTTTCTGCTGCAGAACATTTCTGTACTAGTGAGAAGAGGGAATATGCATTGCAGTTCAGCAA
GCCGGAATTCTGTGTTGAACAGATGTCTGTCTCCCTAGTGTGTGACTCACACCTTGTGGCTGCCTTCAGAGCGCC
ACCTCCAGATCAGATGGGGACACACAACCCCTGGATATGTTTCATTGTGAGATTTTGTGCTTGATTTAAGAATG
GAATTGTGGGATCTTTTCTTTTAAATGTATCTTAACTGTTGCCTGTCAGTGTTCACAACTAGTGCCTTG
ACGGCACCGTGTCCAAGTTTTTAGAACCTTGTAGCCAGACCGAGGTGTCTGGTCAACGTTTCACCATCATGC
TTTGATGTTCCCTGTCTTTCCCTCTTCTGCTCTCAAGAGCAAAGGTTAATTTAAGGACAAAGATGAAGTCACTG
TAAACTAATCTGTCAATTGTTTTACCTTCCTTTTCTTTTTCAGTGCAGAAATTAAGTAAGTATAAAGCACCGT
GATTGGGAGTGTGTTTTGCGTGTGTCGGAATCACTGGTAAATGTTGGCTGAGAACAATCCCTCCCCTTGCACTTGT
GAAAACACTTTGAGCGCTTTAAGAGATTAGCCTGAGAAATAATTAAATATCTTTTCTCTCAAAAAAAAAAAAAA
AAAA

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FIGURE 1420

MPYEIKKVFASLPQVERGVSKIIGGDPKGNNFLYTNGKCVILRNIDNPALADIYTEHAHQVVAKYAPSGFYIAS
GDVSGKLRWDTTQKEHLLKYEQPFAGKIKDIAWTEDSKRIAVVGE GREKFGAVFLWDSGSSVGEITGHNKVIN
SVDIKQSRPYRLATGSDDNCAAFFEGPFFKFKFTIGDHSR FVNCVRFSPDGNRFATASADGQIYIYDGKTGEKVC
ALGGSKAHDGGIY AISWSPDSTHLLSASGDKT SKIWDVSVNSVSTFPMGSTVLDQQLGCLWQKDHLLSVSLSGY
INYLDRNNPSKPLHVIKGHKS SIQCLTVHKNGGKSYIYSGSHDGHINYWDSETGENDSFAGKGHTNQVSRMTVDE
SGQLISCSMDDTVRYTSLMLRDYSGQGVVKLDVQPKCVAVGPGGYAVVVCIGQIVLLKDQRKCF SIDNPGYEPEV
VAVHPGGDTVAIGGV DGNVRLYSILGTTLKDEGKLL EAKGPVTDVAYSHDGAFLAVCDASKVVTVFSVADGYSEN
NVFYGHHA KIVCLAWSPDNEHFASGGMDMMVYVWTLSDPETRVKIQDAHRLHHVSSLAWLDEHTLVTTSHDASVK
EWTITY

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FIGURE 1421

GGCACGAGCGCAACCACAGCGCGCAGGGCAGGCGCGAGCTGGCCTCTGAGCCCCGGCCTCGGACCGCCCACTCCA
CTCCCGGCACGCCCCGGTGCCGCCCTTCCGGCTCCAGTCCCCGGGCTCGGCCTCGGCGAGGTGTAATTCGCAGCGCG
GGCCGGCCCCGGAGGCTCTCGGCGAGCGCGGCGCGGTAACAAGTGGGCGAGGATGCCGTACGAGATCAAGAAGGT
GTTCCGCCAGCCTCCCGCAGGTGGAGAGGGGCGTCTCCAAGATCATCGGCGGCGACCCTAAGGGCAACAATTTTCT
GTACACCAATGGAAGTGCCTCATCCTAAGGAACATCGACAACCCAGCCCTTGCTGACATCTACACAGAGCACGC
CCATCAGGTGGTGGTGGCCAAGTATGCGCCCAGCGGATTCTACATTGCCTCCGGAGATGTGTCTGGGAAGCTGAG
GATCTGGGATACACGCAGAGAAGGAGCACCTGTTGAAGTATGAGTACCAGCCTTTCGCTGGGAAGATCAAAGACAT
TGCTTGGACTGAAGACAGTAAGAGGATCGCCGTGGTTCGGGAAGGAAGGGAGAAGTTGGAGCAGTCTTCCTCTG
GGATAGTGGCTCTTCTGTGGGCGAGATTACAGGACACAACAAGTCATCAACAGCGTGGACATCAAGCAGAGCCG
GCCATACCGGCTGGCCACGGGAAGCGATGATAACTGCGCGGCATTCTTTGAGGGACCCCCATTCAAGTTCAAGTT
CACAATTGGCGACCACAGCCGCTTTGTCAACTGTGTGCGATTCTCTCCTGATGGGAACAGATTTGCCACAGCCAG
TGCTGACGGCCAGATATACATCTATGACGGGAAGACTGGGGAGAAGGTGTGCGCGCTGGGCGGAAGCAAGGCCCA
CGACGGTGGGATTTACGCAATTAGTTGGAGTCCCGACAGCACCCATTTGCTTTCTGCTTCTGGGGACAAAACCTC
CAAGATTTGGGACGTACGCGTGAACCTCCGTGGTCAGCACATTTCCCATGGGCTCCACGGTTCTGGACCAGCAGCT
GGGCTGCCTATGGCAGAAGGACCACCTGCTCAGTGTCTCCCTGTCCGGGTACATCAACTATCTGGACAGAAACAA
CCCCAGCAAGCCCCCTGCACGTATCAAGGGTCACAGTAAATCGATCCAGTGTCTGACGGTGCATAAAAACGGCGG
CAAGTCCTACATTTACTCTGGGAGCCACGACGGACACATTAATTACTGGGATTCAGAGACGGGGGAGAACGACTC
CTTCGCTGGGAAAGGCCACACGAACCAGGTGTCCAGGATGACCGTGGATGAGTCGGGGCAGCTCATCAGCTGCAG
CATGGACGACACCGTGCGGTACACCAGCCTCATGCTGCGGGACTACAGCGGACAAGGAGTTGTGAACTGGACGT
TCAGCCAAAGTGCCTAGCCGTCGGCCCCGGGGGATACGCCGTGGTCTGTGATTGGACAGATTGTCCTGCTGAA
GGATCAGAGGAAGTGCTTCAGCATCGACAACCCCGGCTACGAGCCCGAAGTTGTGGCAGTGCACCCCGGCGGGGA
CACGGTGGCAATTGGGGGTGTGGACGGCAACGTCCGCCTGTATTCCATCCTGGGCACCCACGCTGAAGGATGAGGG
CAAGCTCCTAGAGGCCAAGGGCCCCGTGACCGACGTGGCCTACTCCCACGACGGCGCCTTCCTCGCGGTGTGCGA
CGCCAGCAAGGTGGTCACAGTGTTCAGCGTTGCTGACGGCTACTCGGAGAACAATGTTTTTTATGGACACCATGA
AAAAATAAGCGAGCACCTAAACAATGTGTGGAGCATAACTAAAACCCACAGCCCAACCAACCTTGAGAATGCGA
AACATTCAGAGGCAGTAGCCTCCAAAGCACACAGAGCCCCCTGGCCCCGCGCGGCTCTCACTATCTGTCAGGGG
AGGTTGTACAGGTGAATGAGCCGGGGGGCTCATGTTCCCTGCCTGCAGAACATTTCTGTACTAGTGAGAAGAGGGA
ATATGCATTGCAGTTCAGCAAAGCCGGAATTCTGTGTTGAACAGATGTCTGTCTCCCTAGTGTGTGACTCACACC
TTGTGGCTGCCTTCAGAGCGCCACCTCCAGATCAGATGGGGACACACAACCCCTGGATATGTTTCATTGTCAGAT
TTGTGCTTGATTTTAAGAATGGAATTGTGGGTATCTTTCCCTTTTTTTTTTAATGTATCTTAAGTGTGCCTGTCA
GTGTTTACAACTAGTGCCTTGACGGCACCGTGTCCAAGTTTTTTAGAACCTTGTTAGCCAGACCGAGGTGTCCT
GGTCACCGTTTCACCATCATGCTTTGATGTTCCCTGTCTTTCCCTCTTCTGCTCTCAAGAGCAAAGGTTAATTT
AAGGACAAAGATGAAGTCACTGTAAACTAATCTGTCATTGTTTTTACCTTCCTTTTCTTTTTCAGTGCAGAAATT
AAAAGTAAGTATAAAGCACCGTGATTGGGAGTGTTTTTGCGTGTGTGGAATCACTGGTAAATGTTGGCTGAGAA
CAATCCCTCCCTTGCACTTGTGAAAACACTTTGAGCGCTTTAAGAGATTAGCCTGAGAAATAATTAAATATCTT
TTCTCTTCAAAAAAAAAAAAAAAAAA

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FIGURE 1422

MPYEIKKVFASLPQVERGVSKIIGGDPKGNNFLYTNGKCVILRNIDNPALADIYTEHAHQVVVAKYAPSGFYIAS
GDVSGKLRIWDTTQKEHLLKYEQPFAGKIKDIAWTEDSKRIAVVGEKREKFGAVFLWDSGSSVGEITGHNKVIN
SVDIKQSRPYRLATGSDDNCAAFFEGPPFKFKFTIGDHSRNVNCRFSPDGNRFATASADGQIYIYDGKTGEKVC
ALGGSKAHDGGIYAIWSPDSTHLLSASGDKTSKIWDVSVNSVVSTFPMGSTVLDQQLGCLWQKDHLHSVLSGY
INYLDRNNPSKPLHVIKGHKSISQCLTVHKNGGKSYIYSGSHDGHINYWDSETGENDSFAGKGHTNQVSRMTVDE
SGQLISCSMDDTVRYTSLMLRDYSGQGVVKLDVQPKCVAVGPGGYAVVVCIGQIVLLKDQKCFSIDNPGYEPEV
VAVHPGGDTVAIGGVDGNVRLYSILGTTLKDEGKLEAKGPVTDVAYSHDGAFLAVCDASKVVTVFSVADGYSEN
NVFYGHHEK

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FIGURE 1423

ATTTTAGCTGTTGGTTCCGGCCGCACCGTGTGGGCTGTAGTAGCGGGAGGGGTGGGGGTCTCCAGAGTTAAGTG
GCTGTCTCTGACTGTGCCCATACAGCAGCCAGCTTTCTTCTTAATAACTGCCCCGTTCTGAAGAGTGCAGGATGT
CCAAGCGGCACCGGTTGGACCTAGGGGAGGATTACCCCTCTGGCAAGAAGCGTGCGGGGACCGATGGGAAGGATC
GAGATCGAGACCGGGATCGTGAAGATCGGTCTAAAGATCGAGACCGAGAACGTGATAGAGGAGATAGAGAGCGAG
AGAGGGAGAAAGAAAAGGAGAAGGAGTTGCGAGCTTCAACAAATGCTATGCTTATCAGTGCTGGATTACCACCTT
TGAAAGCTTCCCATTAGCTCACTCAACCCACTCAGCACATTCAACGCATTCAACACATTCTGCTCATTCAACGC
ATGCCGGACATGCAGGTCACACGTCACCTTCCACAGTGCATTAATCCGTTACCAACTTACCCCATACTCCTCGAT
ACTATGATATTCTAAAGAAACGTCTTCAGCTCCCTGTTTGGGAATACAAGGATAGGTTTACAGATATTCTGGTTA
GACATCAGTCCTTTGTACTGGTTGGTGAGACTGGGTCTGGTAAACAACACAGATTCCACAGTGGTGTGTGGAGT
ACATGCGATCATTACCAGGACCCAAGAGAGGAGTTGCCTGTACCCAACCCAGGAGAGTGGCTGCAATGAGTGTGG
CTCAGAGAGTTGCTGATGAGATGGATGTGATGTTGGGCCAGGAAGTTGGTTACTCCATTTCGATTTGAAGACTGCA
GTAGTGCAAAAACATTCTTAAGTATATGACTGATGGGATGTTACTTCGTGAAGCTATGAATGATCCCCCTCCTGG
AGCGTTATGGTGTAATAATTCTTGATGAGGCTCATGAGAGGACACTGGCTACAGATATTCTAATGGGTGTTCTGA
AGGAAGTTGTAAGACAGAGATCAGATTTAAAGGTTATAGTTATGAGCGCTACTCTAGATGCAGGAAAATTCCAGA
TTTACTTTGATAACTGTCTCTCTCTAACTATTCTGGGCGTACACATCCTGTTGAGATCTTCTATACTCCAGAAC
CAGAGAGAGATTATCTTGAAGCAGCAATTCTGAACAGTTATCCAGATTTCATATGTGTGAAGAGGAAGAGGGAGATC
TTCTTCTTTTCTTAAGTGGTCAAGAGGAAATTGATGAAGCCTGTAAGAGAATAAAGCGTGAAAGTTGATGATTTGG
GCCCTGAAGTTGGTGACATTAATAATCATTCCATTGTATTCTACACTTCCACCTCAGCAGCAGCAACGCATTTTTG
AGCCTCCACCTCCCAAAAAACAGAATGGAGCAATTGGAAGAAAGGTAGTTGTGTCAACTAACATAGCAGAGACGT
CTTGACAATAGATGGTGTGGTGTGTTGTGATTGATCCTGGATTTGCGAAACAGAAGGTCTACAATCCTCGAATCA
GAGTTGAGTCCCTTTTGGTGACAGCTATTAGTAAAGCTTCAGCTCAGCAAAGGGCTGGTTCGAGCTGGACGTACCA
GACCTGGAAAATGCTTCAGACTTTACACAGAGAAAGCTTATAAAACAGAAATGCAGGATAACACCTATCCTGAGA
TTTTGCGTTCTAATTTAGGATCAGTTGTGTTACAATTGAAGAACTTGGTATTGATGACTTGGTACATTTTGATT
TTATGGATCCACCAGCTCCTGAAACTCTGATGAGAGCCCTGGAACTTTTGAATTACCTGGCTGCTTTAAATGATG
ATGGAGATCTGACTGAATTGGGATCCATGATGGCAGAGTTTCTCTAGATCCACAGCTCGCAAAAATGGTTATTG
CAAGTTGTGACTACAACCTGTTCTAATGAGGTCTTATCTATTACTGCTATGTTGTCAGTCCCACAGTGTTTTGTTT
GCCCCACGGAGGCCAAGAAAGCCGCAGATGAGGCCAAGATGAGATTTGCCACATAGATGGAGATCATCTGACAC
TGCTGAACGTCTACCATGCTTTTAAACAAAATCATGAATCGGTTTCAAGTGGTGTATGACAACCTTCATTAACCTACA
GGTCCCTGATGTCCGCAGACAATGTACGCCAGCAGCTATCTCGAATTATGGACAGATTTAATTTGCCTCGTCGAA
GTACTGACTTTACAAGCAGGGACTATTATATTAATATAAGAAAAGCTTTGGTTACTGGGTATTTTATGCAGGTGG
CACATTTAGAACGAACAGGGCATTACTTAAGTGTGAAAGATAACCAGGTGGTTCAGTTGCATCCCTCTACTGTTT
TTGACCACAAACCTGAATGGGTGCTTTATAATGAGTTTGTCTAACAACAAAGAATTACATCCGGACATGTACAG
ATATCAAGCCAGAATGGTTGGTGAAAATTGCCCTCAATATTATGACATGAGCAATTTCCACAGTGTGAAGCAA
AGAGACAGTTGGACCGCATCATTGCCAACTTCAATCCAAGGAATATTACAGTACTGAATTCAGTGCTTAGAAC
TGAAGTTATTGAGAGGACAGCTTTAAAGATGAATGAACCTCAAAAGTTCGAGTTGTGCTCTTCACGTTGGTTTCGA
TAATGGCCTTTATTTGAAAGCTTTTAAATTTTCTTTACAGTAAATATTCCATTCTGATTTTATAAATTAAACAT
TTATGCCTCCCTTTTGTGTTGACACTGTAGCTCATACTGGAAAAGTCGATCAATGTTTTGCAGTTTATTGAAAGT
AGTTCTATATATAACAATGTTATAAGCATTTCTTTAGAAATGGTTGAAAATGCTTCTAAAATGTGATTATCGACC
ATGGTATGCATGATCGTTGTAATTGTTGACATTCCCTTTTAGAAGTTGTGAAATGTTACAACCTTGTGCTTATGTAG
ACACAATCTTCTGTCTCAGTACAGAGGCACTGACTTCAATAAAGTCTATTTATACT

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FIGURE 1424A

AGGATTTTAAAGAGTGGACTTGGTATTACCATAATTCCTATGAATGTAGCAAATGTAAAGCAAGTGGACCGAACTG
TGAAACAATCTTTTGAATAATCACTCCCTACAGGAGTTTCAGCTTTACAGCCGAGACTGAAAAGGAGAAACAAG
ACTGGATTGAAGCTGTGCAGCAATCAATAGCAGAACTCTCTCTGATTATGAAGTAGCTGAGAAGATTGGTTCA
ATGAATCCAACAGGAGCTGTGCAGATTGTAAAGCCCCAGATCCTGACTGGGCATCCATCAATCTCTGTGTTGTCA
TCTGTAAGAAGTGTGCAGGACAGCATAGATCTTTAGGACCAAAAGATTCCAAGGTTAGAAGTCTAAAAATGGATG
CTAGCATTTGGAGCAATGAATCATCGAGCTTTTTATTGTCTATTGGAAACAAAAGAGCAAATGACTTTTGGGCTG
GTAATCTTCAAAAGGATGAAGAATTACATATGGACTCACCAGTAGAAAAGAGAAAAAACTTTATTACTCAGAAAT
ATAAAGAAGGAAAATTCAGAAAACTCTTTTGGCATCTCTCACCAAAGAAGAATTAATAAGGCTCTATGTGCTG
CTGTAGTGAAACCGGATGTTCTAGAAACAATGGCTTTGCTGTTTCAGTGGAGCAGATGTCATGTGTGCCACCGGAG
ACCCCGTGATAGCACCCCTATCTGCTAGCCAAGAAAGCTGGGCAAAGTCTGCAAATGGAATTTCTCTACCATA
ACAAATCTCAGATTTCCCTCAACATGATATTCAATCCGAGGGTGTATTAAGTCAAGAGTCTTCCAGTCCACAT
TCCTCTGTGACTTTTTATATCAAGCTCCTTCTGCTGCTTCTAAACTCTCTTCAGAGAAAAAACTGCTTGAAGAGA
CAAATAAAAAATGGTGTGTTTTGGAAGGAGGCTTCTTGAGTTACTATGAAAATGATAAGTCTACCACACCTAATG
GCACCATTAATATCAATGAAGTTATCTGCCTGGCTATACACAAAGAGGACTTCTATTTAAATACTGGGCCCCATCT
TTATCTTTGAGATCTACTTACCCTCCGAACGTGTGTTTTTATTTGGAGCTGAAACATCTCAAGCTCAAAGAAAAT
GGACAGAGGCAATAGCCAAGCATTTTGTTCCTTATTTGCTGAAAACCTTAACAGAAGCTGACTATGATTTGATTG
GTCAACTCTTCTACAAAGACTGCCATGCCCTGGATCAGTGGAGAAAAGGCTGGTTTGCTATGGACAAATCCAGCT
TGCATTTTTGCCTTCAAATGCAAGAAGTTCAGGGAGATAGAATGCACCTTAAGAAGACTGCAAGAGCTAACAATCA
GCACAATGGTTCAAAATGGGGAAAACTGGATGTTTTACTCTTGGTAGAAAAAGGGAGAACATTATACATCCATG
GGCATACCAAGTTGGATTTACAGTCTGGCATACTGCAATTGAAAAAGCAGCAGGTACAGATGGTAATGCTTTAC
AAGATCAGCAGCTCAGCAAAAATGACGTTCCCATTAAGTGAACAGCTGTATAGCATTGTACACAGTATGGTT
TAGGATGCAAAATATCTATCAAAAGAATGGTGATCCTTTGCATATAAGTGAACCTCTGGAGAGTTTCAAAAAGG
ATGCAAGAAGCTTTAAATTGAGGGCTGGAAAACATCAGCTTGAAGATGTGACGGCTGTGTTGAAAAGTTTTCTCT
CTGACATTGATGATGCACTGCTTACTAAGGAGCTCTACCCATATTGGATCTCTGCTTTAGATACGCAAGATGACA
AGGAAAGAATTAAAAAATATGGAGCATTTATACGTTCTCTTCCAGGGGTCAACCGAGCAACACTAGCAGCTATCA
TTGAACACCTGTATAGGGTTTCAGAAATGCTCAGAAATCAATCACATGAATGCCATAATTTGGCCTTGGTCTTTT
CATCTGTTTTGTTTCAAACGAAGGGACAACTAGTGAAGAAGTGAATGTAATTGAGGACCTAATTAATAATTATG
TAGAAATATTTGAGGTTAAAGAAGATCAAGTCAAACAAATGGACATAGAAAATAGCTTTATTACCAAGTGGAAG
ACACCCAAGTTTCCAGGCTGGAGATTTGTTAATTGAAGTATATGTAGAAAGGAAGGAACCCGACTGTAGTATTA
TAATTCGGATATCTCCTGTGATGGAAGCAGAAGAATTAATAATGATATATTAGCGATAAAAAATATTATTCCTA
CAAAAGGTGATATTTGGGCCACATTTGAAGTCATTGAAAATGAAGAGCTAGAGCGTCTCTTCACTACAAGGAAA
ATGTACTGGAGCAGGTGCTTCGGTGGAGTTCATTAGCTGAACCTGGCTCTGCTTACCTGGTGGTGAAGAGATTCT
TAACCGCTGACACAATTAACACTGCAGTGACCGGAGTACACTGGGAAGCATCAAAGAAGGAATCTTGAAAATCA
AAGAAGAACCATCCAAAATACTATCTGGAAATAAGTTTCAAGACCGGTATTTTGTGTTTACGAGATGGGTTTCTCT
TTCTTTACAAGGATGTGAAGAGTAGTAAACATGACAAGATGTTTTCTCTCAGTTCCATGAAGTTTTATCGTGGAG
TGAAAAAGAAAATGAAGCCTCCAACAAGCTGGGGATTGACCGCATATTCTGAGAAACATCACTGGCACCTGTGTT
GTGATAGTTCACGAACCTCAGACGGAGTGGATGACCAGTATCTTTATTGCCAGCATGAATATGATATATGGCCAC
CAGCTGGAAAGGAACGAAAACGTTCAATAACCAAAAATCCAAAATTGGAGGTTTGCTCTGATTCCCTATACAGC
ATGAGGGGAATGCAACCTTGCCCCGGAATAATTGAGAGTGCAAGAGCAGAAGTTGAAAGGCTGCGGCTCAGTG
AAAAGTGTGATAAAGAGTCCGTGGACTCTAGCTTAAAGGAGAGAGCTTCCATGGTGGCCCACTGCCTGGAGCACA
AGGACGATAAACTTCGAAATCGACCCCGAAAACATCGGAGTTTCAACTGCCTGGAGGACACAGAGCCTGAAGCCC
CACTTGGGCAACCAAAAGGCCATAAAGGCCTAAAGACATTGAGGAAGACTGAGGACAGGAATAGCAAAGCTACTT
TGGACTCTGATCATAAGTTACCATCAAGGGTAATTGAAGAAGTTAATGTGGTTCTACAACGGTCAAGAACCCCTC
CAAAAGAATTACAGGATGAGCAGATTTTGAAGTAGGAAATAAAATGAATTGCTCCCAGATTATTTTTTTAATAT
TGTAIGCAATCTTTATGTGTAACCTCAAAACTGAACATAAGATAATTGATAAGAATTTGCCTATTGATAGGCAA
ATTTGTCTATGCTTAGGCATTTAAGGAGCATTTAAAAATATGTATATATGTGACTGAATGTAAGATTAACCTTTAT
TTTGGTCTGAACAAACCTTGTAAGTTCCATTGTATTAACGTGTGTAAGAAGACATTGGGTACTTAGGTGGTCA
GTCCTTTTAAAGTAGTTGTCTGTTAAGTGGTATAATTTATGAGCAGAAATCTCAAACGTACTGTATTGTATAAA

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FIGURE 1424B

ATGCTGTGTTTAAATGAAGCCTAAGAACTATCTGTAACATATTTTGCACTTTGAGAAACCTTGTATATTAAATT
ACCATATGTTTTTAGGTTTACAGAAGTTCTACCTTAGGGAAAAGAAAGGGAAGTAAATTGAAAAAGGGGGAGAA
TTTATTGTAGTGGCTGCCTAAAAACCACTGGAGTTTTTAAAAGAAGCAAGGAGTTAAATGTCTGCAAAACAAGG
AAGTGAGCTAAGATTCTTCTAGTTCACTAATGACCAGAAGTTGTCAATGAGAAACCACTTGTTAAGAAAAAGTC
CAGTGTGTTATTTCTCAAGAGTAATATTCGGCCAACAGATGTAAATAATAGCACTAGCCACTCTTATTAATATTTA
TAGTGTTAGAAAAACCAAGCCACATTACAGATTCACTACGTTTGAGCTCATTGTTGGTGGCTGCTAAGAGGAACTT
ACACTGCATTGGAGAGGTTGTGTACACAGGACCTGGCCTGGATGCTGATTGCACTGTCATTGTATGCAAGCATT
TGTCTTTTTTCAGAATTTCTGACTATACTTTTGGTACGAACAAAATTCATCACCACAGGGTCCTGTTGTTTTGTT
TGATTTTTAGATTTTTTTAAATTATTATTAAGGTTGTAATGTTTTTCTCCGAGTTGTCAGAAATAACTGGAAGAA
TACAATATATGGCCATTATGGAGCCAGGGGCTAGTTGGTGGTTTACTATACATTTGGGGGCTACCTGGTCACATT
TAATCTAGGTTTTTTTTCTTTTTTAAAGTAAAGGTGTGGTCTCTTCCCTGTACTTATGAATAAGGACAAAGCCC
TATTTTTGTTTCCACATAAAGATCAGCTACTGAATTGGTGAATTTCTTGACAGACAATGCTATCTAACCATAGTT
CATGTTAGGGGAAGCATTGTTCCATCAGTTTCTTTAAATTTGGATTGCTGGTGAGTTTGTATTTAAACATTAT
GTAGCTAAGTTTTTTTTTTTAGCATTTCTTTTTTATTTTCAATCTATATTCACAGGCCCATACTTCAGTCAGT
CCAATCATAGTACAGTGATGTGGTGGTAGATGCTATGAATTTCTTCATTGTAAATACGGATCATTGTTATTTG
GGGTGATAAAATAGTTCACCATGGGTATGAGATATTTATTCTTTAAATCAAAGTAAATTAGAATTTTTAAAAGC
ACAAAAGTGCAGGACAGTTTATGAAATAGGTGGCACTATTAGGGAATCTTCCTTTAAAGCAAGAAATCATGTTAT
TTAGAAAGAAAACTAATCTTAAACATACTATTTCTAATAAATATTTATATTTTATGAAATAAAGAGGTATGTG
GAAATTAATATTTGGTGATGTTGGACAGTGGAAAAGTATCTAGAGTTTTTACCTGCCTTATCTGAATTCTTCTTG
AACTTGAGCTTAACTCTAATAGCTGTTCCCTTTCTATTCTGAACAAGTGTCTCCATTTTTCAAGTGTGAGAG
ATAAGGGCTAATGATGACATCTCATTATTTTGAGTAAACATTAAATTTGTTTTACAAGTCTACTTG

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FIGURE 1425

TTCTTTCTTTGCTGCGTCTACTGCGAGAATGAAGACTATTCTCAGCAATCAGACTGTCGACATTCCAGAAAATGT
CGACATTACTCTGAAGGGACGCACAGTTATCGTGAAGGGCCCCAGAGGAACCCCTGCGGAGGGACTTCAATCACAT
CAATGTAGAACTCAGCCTTCTTGGAAGAAAAAAGAGGCTCCGGGTTGACAAATGGTGGGGTAACAGAAAGGA
ACTGGCTACCGTTCGGACTATTTGTAGTCATGTACAGAACATGATCAAGGGTGTTACACTGGGCTTCCGTTACAA
GATGAGGTCTGTGTATGCTCACTTCCCCATCAACGTTGTTATCCAGGAGAATGGGTCTCTTGTGAAATCCGAAA
TTTCTTGGGTGAAAAATACATCCGCAGGGTTCGGATGAGACCAGGTGTTGCTTGTTTCAGTATCTCAAGCCCAGAA
AGATGAATTAATCCTTGAAGGAAATGACATTGAGCTTGTTTCAAATTCAGCGGCTTTGATTCAGCAAGCCACAAC
AGTTAAAAACAAGGATATCAGGAAATTTTTGGATGGTATCTATGTCTCTGAAAAAGGAAGTTCAGCAGGCTGA
TGAATAAGATCTAAGAGTTACCTGGCTACAGAAAGAAGATGCCAGATGACACTTAAGACCTACTTGTGATATTTA
AATGATGCAATAAAAGACCTATTGATTTGGACCTTCTTCTT

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FIGURE 1426

MKTILSNQTVDIPENV DITLKGRTVIVKGPRGTLRRDFNHINVELSLGKKKKRLRV DKWWGNRKELATVRTICS
HVQNMIGVTLGFRYKMRSVYAHFPINVVIQENGSLVEIRNFLGEKYIRRVRMRPGVACSVSQAQKDELILEGND
IELVSNSAALIQQATTVKNKDIRKFLDGIYVSEKGT VQQADE

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FIGURE 1427A

GTCCTTGCTTCTTTTTTTCATTGATGTAAATTTTTTTAACTTAATATGAAAACCTCTCCAAGTCTTGATCATCAGCC
AGGATTTTTGCCACAGCAATTTCAATTCTTATCGGAGCTTGTATGTGTCAAAGTATACTTCAGAGTGCAAACATT
AAGCAAGTAATATATTTTACCTACAGATACTTATGAAGACATTCTTTTCGCTATCGTGAGTAAAAAGTATATAAAGC
TGTTTCTAACTGAAAATGCTTGAAAATAAGCCTGTAATAGAAATATTTTTTCATTTTTTAAAAAAGGGCGGAATTC
CCAGACTGTCTTCGCCTTCTTGCACTTCGCGGGAGAAGTTGTTGGCGCGAATGGATCCTGAGCCTCGATAACAGA
TTCCTCAACCGGCCCCACCCGCCAGCCAGCCAGCGCCTTCATCCTGGGGCTGCGATGGACATTTCGGAAATTCCTTG
GAGTAATACCAAGTGGAAGAACTTGTAAGTGAAACAGTAAAGAAGAATGAGAAAACAAAGTCTGATGAAGAAA
CTTTAAAAGCAAAGAAAGGAATAAAGGAAATCAAGGTAAATAGCTCCCGTAAAGAGGATGACTTCAAACAAAAGC
AACCAAGCAAGAAAAAGAGGATCATCTATGATTAGATTAGAGTCAAGAGGAGACGTTGCAGGTAAAAAATGCCA
AAAAGCCACCAGAAAAACTGCCAGTATCTTCTAAACCTGGTAAAATTTACGGCAGGATCCTGTTACATACATTT
CAGAAACAGATGAAGAAGATGACTTTATGTGTAAGAAGGCGGCCTCTAAATCAAAGAGAATGGAAGATCTACAA
ATAGTCATCTTGGAACATCAAAACATGAAAAAGAATGAAGAAAACACTAAGACCAAGAATAAGCCTTTATCACCAA
TAAACTTACACCCACATCAGTACTTGATTATTTTGGAACTGGAAGTGTCCAAAGATCTAATAAGAAGATGGTGG
CAAGCAAAAGAAAAGAGCTTTCACAAAATACAGATGAGTCTGGATTAAATGATGAAGCCATCGCCAAGCAATTAC
AGCTTGATGAAGATGCGGAGCTGGAGAGGCAGTTGCATGAAGATGAAGAGTTTGCCAGAACATTAGCCATGTTGG
ATGAAGAACCCAAGACCAAAAAAGGCTCGAAAGGACACAGAAGCGGGAGAAACGTTTTCATCTGTCCAAGCCAATT
TAAGTAAAGCAGAAAAACATAAATATCCTCATAAAGTAAAAACAGCACAAAGTTTCAGATGAAAGAAAGAGCTACA
GTCCTAGGAAGCAAAGTAAATATGAAAGTTCAAAGAATCTCAGCAACATTCCAAGTCATCAGCTGACAAAATAG
GAGAAGTCTCTTCTCCCAAGGCCAGTTCTAAGCTGGCAATTATGAAAAGAAAAGAAGAGAGCTCTTATAAAGAAA
TAGAGCCTGTGGCCTCAAAAAGAAAAGAAAATGCCATTAAATTGAAAGGAGAGACAAAAACTCCTAAGAAAACCA
AAAGTTCTCCAGCTAAAAAAGAGTCTGTAAGTCTGAAGATTCTGAAAAGAAACGCACTAATTATCAAGCTTATC
GAAGCTACTTAAATCGAGAAGGTCCCAAGGCTCTGGGCTCCAAAGAAATACCAAAGGGAGCTGAAAATTGCTTGG
AAGGCCTTATATTTGTAATCACAGGCGTGCTGGAGTCTATTGAACGAGATGAGGCCAAGTCTCTAATTGAACGTT
ATGGGGGAAAAGTAACAGGAAATGTCAGCAAGAAAACAAATTATCTTGTCTATGGGTGCTGATAGTGGACAGTCCA
AGAGTGATAAGGCCCGCAGCCTTGGGGACAAAATTATTGATGAAGATGGCCTGTTGAATCTGATTCCGACTATGC
CAGGCAAGAAATCCAAGTATGAAATAGCAGTTGAACTGAGATGAAGAAAGAGTCCAAACTGGAGAGAACACCCCC
AAAAAATGTCCAAGGAAAAAGAAAAATTAGTCCATCTAAAAAGGAATCAGAATCTAAAAAGAGCAGGCCGACTT
CCAAAAGGGACAGTTTGGCAAAGACAATAAAAAAGGAAACAGATGTGTTTTGGAAAAGCCTGGATTTCAGGAGC
AGGTGGCTGAGGAGACAAGTGGTGACAGCAAGGCTAGGAATTTGGCTGATGACAGCAGTGAAAAACAAAGTGGA
ATTTGCTCTGGGTGGATAAATATAAGCCAACCTCGCTCAAGACCATAATTGGACAGCAAGGTGACCAGAGCTGTG
CCAACAACTCCTACGCTGGCTCCGAACTGGCAAAAGAGTTCTTCCGAAGATAAAAAACACGCAGCAAAAGTTTG
GTAAATTTTCCGGCAAAGATGATGGCTCTAGTTTTTAAAGCAGCGTTGCTGTGAGGCCCTCCTGGTGTGGCAAAA
CCACCACAGCTTCCCTGGTGTGTCAGGAGTTGGGATACAGCTACGTGGAAGTGAATGCAAGTGACACCCGAGTA
AGAGCAGTTTGAAGGCGATTGTTGCTGAGTCACTGAACAATACCAGCATCAAAGGCTTTTATTCAAATGAGCAG
CCTCTTCAGTAAGCACGAAACATGCTCTCATCATGGATGAAGTAGATGGCATGGCAGGCAATGAGGATAGGGGAG
GAATTCAGGAATTAATTGGCCTGATAAAACATACTAAATTTCCATTATTTGTATGTGCAATGATAGAAATCATC
CCAAGATTGCTCTCTGGTTCAATTATTGTTTTGATCTTCGTTTTCAAAGACCTCGGGTTGAACAGATTAAGGGTG
CTATGATGTCTATTGCATTTAAAGAAGGTTTAAAGATTCCCCCTCCAGCTATGAATGAAATAATTTTGGGAGCCA
ATCAAGATATCAGACAGGTTTTACATAATCTGAGTATGTGGTGTGCACGAAGTAAAGCATTAACTATGACCAGG
CCAAAGCTGATTCTCACAGAGCCAAAAAGGATATCAAATGGGGCCATTTGATGTTGCCCCGAAAGTGTTTGCA
CTGGAGAGGAGACTGCTCACATGTCACTTGTGGACAAGTCAGATCTCTTTTTTCATGATTATTCAATAGCACCCC
TCTTCGTCCAGGAAAATTACATACACGTGAAGCCTGTAGCAGCAGGGGGTGACATGAAAAAGCACCTGATGCTTT
TAAGCAGAGCAGCAGACAGCATATGCGATGGTGACCTAGTGGACAGCCAGATCCGGAGTAAGCAAACTGGAGTC
TTCTGCCTGCGCAGGCCATTTATGCCAGTGTCTTCTGAGAGTTGATGAGGGGGTACATGACCCAGTTTCCCA
CCTTCCCAAGCTGGCTGGGGAAGCACTCGTCTACAGGCAAACATGATCGTATTGTTTCAAGGACCTGGCCTTGATA
TGAGTCTCAGAACTTACTCCAGCAAAAGGACTGTAAACATGGATTATCTGTGCTTCTAAGGGATGCACTTGTAC
AGCCCTTGACCTCACAAGGAGTAGACGGAGTACAGGATGTTGTTGCACTTATGGACACATATTATTTGATGAAAG
AAGACTTTGAGAATATCATGGAAATCAGCAGCTGGGGTGGCAAACCTAGTCCCTTTTCAAAGCTGGATCCCAAGG

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FIGURE 1427B

TGAAAGCAGCCTTCACAAGAGCTTACAATAAGGAAGCCCACCTTACTCCATACTCACTTCAAGCTATAAAGGCAT
CTAGACACAGCACAAAGCCCATCCCTGGATTTCGGAATACAATGAAGAATTAAATGAAGATGACTCTCAATCTGATG
AGAAAGACCAAGATGCTATAGAAACTGATGCCATGATCAAGAAAAAGACAAAATCTTCAAAGCCTTCAAAACCAG
AAAAAGATAAGGAGCCCAGAAAAGGAAAAGGAAAAAGTTTGAAGAAATGAAACCATTTTCACTAGCGACAGCCA
CTTTTTACTCTCCCTCCTGACCAGTCCAGCTGGTCTAGAGAAAGCCTTGTTTTTTCCAGAGCAACCATGTTTTA
GCATAATGGGATGACCTGGTGTCCCATTTATAAATAAAGGGTGGTATGGCTAGAAGGGTATGAGCAGTAGGCTTAT
GTACACCTCTTATAGAGGTTGATAGGACTGCTTGGGTCTCCACTGTCTCTGTCAATCTAGTTAGACGTGCTTC
TGAATGACTGTAGAATTGGAAGTACAACTACACCTGGGCTTTGGAGTCAGATTTTAGTTAACAATAATGAGCCT
GGAGCAGTAGTACTAAGGCGTCTTTGTAGGCTTAAGAATTTATCCTAATGGCCTTTATAGGACCAATGCTGATT
TTTTTTAAAGGCAGTTCCTATTATGTGGTGAAATTTGTAAATAAATGATTATACAAAACAGTCACCACCTAGAA
CTGGGTATTCTTTGTACATTGTCAGATATCTTTCAAAGTATAAATTAGGAATAAAAATGTTCCACATGATATGTG
TACAAATTCTTTTTAAGATTGTCATCTTGTACAGCAAAATATTATGTTGGTATATTACTTCCTTATTAATTTGCA
AATGATTGGATTAAAAAAGCTCACTGTATTCCTTACTAACCTGTTGTGTGAAACATAACATTGGCAGTCGAGGAG
TCAGAACTCGGATTCCCAGCCTCACTCCCTCTGTGTGTGTTGACCACGTCTCTGCTGTGAATAGGATTTCAIGCA
GTGGTCTGTTATGGGGCTTTGCAGCGTGGGGGGCTGCAGAAGATTCTCAGACATTCTTATCCTTCTGGAGTCTCA
ACCCATCAGGTTTACAGACCAGTAGGAACCAGGCTGGGTGAGGCTCTTAATTTCACTACGGTGGGGGACAAAATGAA
CACTGGCTTTTGTTCACCTTGCCCTGAGAGATCTAGTCCTGTCTGTGATGGCTTCCACAAACCTGTTGGAAG
TTTGGGTATTCTTATAACTGTATGTGTTGAGTGGCCGTGACGTATGGACCTAGCCTGGAATTTAGATGTCTAGC
TATTTTTTAATCTTGTGTTGGTAAATGCTCAGAGGTCTGTGCTACCTCTGTGAGGTATATACTAAAATGAATGTAAA
ATAAGGATCGTATTCCCTGCTTTAAGGAACTGGTAGTCTTGTTTGGGTGATGAGACAAAGTTCTTGAGACATTTA
AACTGTATTTACCAGTGTGAAAAATGTCATTTATGGAGATTAATTCATTATGGAATAAAACATTGCCTAAGCCC
TTGCCTGCTG

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FIGURE 1428

MDIRKFFGVIPSGKKLVSETVKKNEKTKSDEETLKAKKGIKEIKVNSSRKEDDFKQKQPSKKKRRIYDSDSESEE
TLQVKNAKKPPPEKLPVSSKPGKISRQDPVTYISETDEEDDFMCKKAASKSKENGRSTNSHLGTSNMKKNEENTKT
KNKPLSPIKLTPTSVDYFGTGSVQRSNKKMVASKRKELSQNTDESGLNDEAIAKQLQDDEDAELERQLHEDEEF
ARTLAMLDEEPKTKKARKDTEAGETFSVQANLSKAEEKHKYPHKVKTAQVSDERKSYSPRKQSKYESSKESQQHS
KSSADKIGEVS SPKASSKLAIMKRKEESSYKEIEPVASKRKENAIKLKGETKTPKKTSSPAKKESVSPEDSEKK
RTNYQAYRSYLNREGPKALGSKEIPKAENCLEGLIFVITGVLESIERDEAKSLIERYGGKVTGNVSKKTNYLVM
GRDSGQSKSDKAAALGTKIIDEDGLNLIRTMPGKKSKYEIAVETEMKKESKLERTPQKNVQGKRKISPSKKESE
SKKSREPTSKRDSLAKTIKETDVFWSLDFKEQVAEETSGDSKARNLADDSS ENKVENLLWVDKYKPTSLKTIIG
QQGDQSCANKLLRWLRNWQKSSSEDKKHAAKFGKFS GKDDGSSFKAALLSGPPGVGKTTTASLVCQELGYSYVEL
NASDTRSKSSLKAIVAESLNNTSIKGFYSNGAASSVSTKHALIMDEVDMAGNEDRGGIQELIGLIKHTKIP IIC
MCNDRNHPKIRSLVHYCFDLRFQRPRVEQIKGAMMSIAFKEGLKIPPPAMNEIILGANQDIRQVLHNLSMWCARS
KALTYDQAKADSHRAKKDIKMGPFDVARKVF AAGEETAHMSLVDSKDLFFHDYSIAPLFVQENYIHVKPVAAGGD
MKKHLMLLSRAADSICDGLVDSQIRSKQNWSLLPAQAIYASVLPGELMRGYMTQFPTFPSWL GKHSSTGKH DRI
VQDLALHMSLR TYSSKRTVNMDYLSLLRDALVQPLTSQGV DGVQDVVALMDTY YLMKEDFENIMEISSWGGKPS P
FSKLDPKVKA AFTRAYNKEAHLTPYSLQAIKASRHSTSPSLDSEYNEELNEDDSQSDEKDQDAIETDAMIKKKTK
SSKPSKPEKDKEPRKGKGKSSKK

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FIGURE 1429A

ATAGTTCGCGTAGCGGCTCGAGCGTGGAGATGAAGCGTATTTTCTCACTGCTAGAAAAGACTTGGCTTGGCGCAC
CAATACAGTTTGCCTGGCAAAAAACATCAGGAACTACCTTGAGTAACAGGAGCTGATTATATTGTGAAAATCT
TTGATCGCCATGGTCAAAAAAGAAGTGAAATTAACCTTACCTGGTAACTGTGTTGCCATGGATTGGGATAAAGATG
GAGATGTCCTAGCAGTGATTGCTGAGAAATCTAGCTGCATTTATCTTTGGGATGCCAACACAAATAAGACCAGCC
AGTTAGACAATGGCATGAGGGATCAAATGTCTTTCTTTCTTTGGTCAAAAGTTGGAAGTTTCCTGGCTGTTGGAA
CTGTTAAAGGAAATTTGCTTATTTATAATCATCAGACATCTCGAAAGATTCTGTCTTGGAAAAACATACTAAGA
GAATCACTTGTGGATGTTGGAATGCAGAAAATCTGCTTGCTTTAGGTGGTGAAGATAAAATGATTACAGTTAGTA
ATCAGGAAGGTGACACGATAAGACAGACACAAGTGAGATCAGAGCCTAGCAACATGCAGTTTTTCTTGATGAAGA
TGGATGACCGAACCTCTGCTGCTGAAAGCATGATAAGTGTGGTGCTTGGCAAGAAAACCTTTGTTTTTTTTAAATC
TGAATGAACCAGATAACCCAGCTGATCTTGAATTTACAGCAGGACTTTGGCAACATTGTCTGCTATAATTGGTATG
GTGATGGCCGCATCATGATTGGTTTTTTCATGTGGACATTTTGTGGTCATTTCTACTCATACTGGAGAGCTTGGTC
AAGAGATATTTACGGCTCGTAACCATAAAGATAATCTAACCAGCATTGCAGTATCACAGACTCTTAACAAAGTTG
CTACATGTGGAGATAACTGCATTAAAATCCAAGACTTGGTTGACTTAAAAGACATGTATGTTATACTCAACCTGG
ATGAGGAAAATAAAGGATTGGGTACCTTGTCTGGACTGATGATGGCCAGTTGCTAGCACTCTCTACCCAAAGGG
GCTCACTTCATGTTTTCTTGACCAAGCTTCCCATACTTGGGGATGCCTGCAGCACAAAGGATTGCCTATCTCACCT
CCCTCCTTGAAGTCACCGTAGCCAACCTGTTGAAGGAGAGCTACCAATCACAGTTTCTGTTGATGTGGAACCCA
ACTTTGTGGCAGTAGGTCTTTATCATCTGGCTGTAGGAATGAATAATCGAGCTTGGTTTTATGTCCTTGGAGAAA
ATGCTGTGAAAAAATTGAAAGATATGGAGTATCTGGGAACAGTAGCCAGTATTTGCCTTCATTCTGACTATGCTG
CTGCACTTTTTGAAGGCAAAAGTCCAGTTACATTTGATAGAAAGCGAAATCTTGGATGCTCAAGAAGAACGTGAGA
CTCGGCTTTTCCCAGCAGTGGATGATAAGTGCCGTATCTTATGCCATGCCTTAAGTAGTATTCTCTCATCTATG
GTACAGATACTGGTGTGCTTCAGTATTTCTACATTGAAGACTGGCAATTCGTTAATGATTATCGACATCCTGTCA
GTGTGAAAAAGATTTTTCCCGACCCAAATGGGACCAGATTAGTTTTTCATTGATGAAAAAGTGATGGATTGTTTT
ACTGTCCAGTCAATGACGCTACCTATGAGATTCCAGATTTTTCCCAACCATTAAAGGTGTTCTTTGGGAAAAC
GGCCAATGGATAAAGGTGATTTTATTGCTTATGATGATGATAAGGTGTACACTTATGTCTTTCACAAGGACACTA
TACAAGGAGCCAAGGTTATTTTGGCTGGTAGCACCAAGTTCTTTTGGCTCATAAACCTTTGCTGCTATATAATG
GAGAGCTGACCTGCCAAACACAGAGTGGAAAAGTAAACAACATCTACCTTAGCACCCATGGCTTTCTCAGCAACT
TAAAAGATACGGGGCCTGACGAACTGAGACCAATGCTGGCACAGAATTTAATGCTAAAGAGGTTTTCTGATGCTT
GGGAAATGTGCAGGATTCTGAATGATGAGGCTGCCTGGAATGAGTTGGCCAGAGCTTGTCTACATCACATGGAAG
TGGAGTTTGAATCCGTGTTTTATCGGAGAATTGGAATGTTGGCATAAGTATGTCCTTGGAAACAAATAAAGGGAA
TAGAGGACTACAATCTTTTGGCAGGACACCTTGCCATGTTTACCAACGATTATAACCTGGCTCAGGACTTGTACC
TTGCATCCAGCTGTCTTATTGCTGCCCTGGAGATGAGAAGGGATTTACAGCATTGGGACAGTGCTCTACAACCTGG
CAAAGCATTTGGCCCCAGACCAGATACCTTTTATATCAAAGAATATGCTATTCAGCTTGAATTCGCGGGTGATT
ATGTAAATGCTTTGGCTCATTATGAGAAAGGAATAACAGGTGATAATAAGGAACATGATGAAGCTTGTCTGGCTG
GAGTGGCCCAGATGTCCATAAGAATGGGAGACATACGTCGAGGGGTTAACCAAGCCCTCAAGCATCCCAGCAGGG
TCCTTAAAAGAGACTGTGGAGCCATATTGGAGAATATGAAGCAATTTTCAGAAGCGGCCCCAACTGTATGAAAAAG
GTCTCTACTACGATAAAGCAGCATCTGTTTACATCCGCTCTAAGAATTGGGCAAAAGTTGGTGATCTTCTGCCCC
ACGTTTCTTCTCCTAAGATCCATTTGCAGTATGCCAAAGCCAAGGAAGCAGATGGAAGATACAAAGAAGCTGTTG
TAGCTTATGAAAATGCAAAACAGTGGCAAAGTGTAATCCGCATCTATCTGGATCACCTCAATAATCCTGAAAAAG
CTGTCAATATTGTTAGAGAGACCCAGTCTCTGGATGGAGCCAAAATGGTAGCCAGGTTTTTTCTACAGCTTGGTG
ACTATGGGTCTGCCATCCAGTTTCTTGTCTATGTCCAAATGCAACAATGAAGCTTTCACACTGGCTCAGCAACACA
ACAAAATGGAAATCTATGCAGATATTATTGGTTCTGAAGACACTACTAATGAAGACTATCAAAGCATTGCCCTTAT
ACTTTGAAGGAGAAAAGAGATATCTTCAGGCTGGAAAATCTTCTTGTGTTGGCCAATATTACGAGCACTTA
AACACTTCTGAAATGCCCAAGCTCGGAAGATAATGTGGCAATAGAAATGGCAATTGAAACTGTTGGTCAGGCCA
AAGATGAACTGCTGACCAATCAGCTGATAGACCATCTCCTGGGGGAGAACGATGGCATGCCTAAGGATGCCAAGT
ACCTGTTCCGCTTGTACATGGCTCTGAAGCAATACCGAGAAGCTGCCAGACTGCCATCATCATTGCCAGAGAAG
AGCAGTCTGCAGGCAACTACCGGAATGCACACGATGTTCTCTCAGTATGTATGCAGAACTGAAATCCCAGAAGA
TCAAAATTCCTCCGAGATGGCCACCAACCTCATGATTCTGCACAGCTATATACTAGTAAAGATTTCATGTTAAAA
ATGGAGATCACATGAAAGGGGCTCGCATGCTCATTGGGTGGCCAACAACATCAGCAAATTTCCATCACACATTG

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FIGURE 1429B

TACCCATCCTGACGTCAACTGTGATTGAGTGTACAGGGCAGGCCTGAAGAAGCTCTGCTTTCAGCTTCGCAGCTA
TGTTGATGAGGCCTGAATACCGCAGCAAAATAGATGCCAAATACAAAAAGAAGATCGAGGGAATGGTCAGGAGAC
CCGATATATCTGAGATAGAAGAGGCCACGACTCCATGTCCATTCTGCAAATTTCTTCTCCCAGAGTGTGAACTCC
TCTGTCCTGGATGTAAAAACAGTATCCCATATTGCATTGCAACAGGTCGACACATGTTGAAAGATGACTGGACGG
TGTGTCCACATTGTGACTTCCCTGCTCTATACTCAGAATTGAAGATCATGCTAAACACTGAAAGCACATGTCCTA
TGTGTTTCAGAAAGATTAAACGCTGCTCAGCTGAAAAAGATTTGAGACTGTACCCAGTACCTGCGAACGGAGGAGG
AACTGTGATTGGCACGTGCAGATACAATGCTCCTGAGAAGACAGCATTTCACAGGAGGCTGTTTCTCCCCTG
GTGGATTTAAGAGACGGTCCTTTCTGGATACAGAGAAATGAAACAACGGTGACCTCTCCAGGTCGGCACTTTCCA
CTTCTGTACGGTGGCAAAACGATGACATGTAACCTTGCTGTTTATTGTACTTTGTATATTATTTCTCTTCAAAG
TCTTTCTTACACACTCTATCCTCTGCACTGTTAATAGTAACCTATGACATAATTGTAAATATTCAGCTTTTTGCT
AACTTTTGTATTTTGAAAACTTTAAAATAAAATTGTTGACTAG

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FIGURE 1430

GGCACGAGGCCTGGGCGGCTCCGCTAGCTGTTTTTCGTCTTCCCTAGGCTATTTCTGCCGGGCGCTCCGCGAAGA
TGCAGCTCAAGCCGATGGAGATCAACCCCGAGATGCTGAACAAAGTGCTGTCCCGGCTGGGGGTCGCCGGCCAGT
GGCGCTTCGTGGACGTGCTGGGGCTGGAAGAGGAGTCTCTGGGCTCGGTGCCAGCGCCTGCCTGCGCGCTGCTGC
TGCTGTTTTCCCCTCACGGCCCAGCATGAGAAGTTTCTCAGGAAAAAGCAGATTGAAGAGCTGAAGGGACAAGAAGTTA
GTCCTAAAGTGTAAGTTCATGAAGCAGACCATTTGGGAATTCCTGTGGCACAATCGGACTTATTCACGCAGTGGCCA
ATAATCAAGACAAACTGGGATTTGAGGATGGATCAGTTCTGAAACAGTTTCTTTCTGAAACAGAGAAAATGTCCC
CTGAAGACAGAGCAAAATGCTTTGAAAAGAATGAGGCCATACAGGCAGCCCATGATGCCGTGGCACAGGAAGGCC
AATGTCGGGTAGATGACAAGGTGAATTTCCATTTTATTCTGTTTAAACAACGTGGATGGCCACCTCTATGAACTTG
ATGGACGAATGCCTTTTCCGGTGAACCATGGCGCCAGTTTCAAGGACACCCCTGCTGAAGGACGCTGCCAAGGTCT
GCAGAGAATTCACCGAGCGTGAGCAAGGAGAAGTCCGCTTCTCTGCCGTGGCTCTCTGCAAGGCAGCC**TAAT**GTCT
CTGTGGGAGGGACTTTGCTGATTTCCCCTCTTCCCTTCAACATGAAAATATATACCCCCCATGCAGTCTAAAT
GCTTCAGTACTTGTGAAACACAGCTGTTCTTCTGTTCTGCAGACACGCCTTCCCCTCAGCCACACCCAGGCACTT
AAGCACAAGCAGAGTGACAGCTGTCCACTGGGCCATTGTGGTGTGAGCTTCAGATGGTGAAGCATTCTCCCCAG
TGTATGCTTGTATCCGATATCTAACGCTTTAAATGGCTACTTTGGTTTCTGTCTGTAAGTTAAGACCTTGGATG
TGGTTTAATTGTTTGTCTCAAAAGGAATAAACTTTTCTGCTGATAAGATAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1431

MQLKPMELNPEMLNKVLSRLGVAGQWRFVDVLGLEEESLGSPAPACALLLFLPLTAQHENFRKKQIEELKGQEV
SPKVYFMKQTIGNSCGTIGLIHAVANNQDKLGFEDGSVLKQFLSETEKMSPEDRAKCFEKNEAIQAAHDAVAQEG
QCRVDDKVNHFHILFNNVDGHLIELDGRMPFPVNHGASSEDILLKDAKVCREFTEREQGEVRFSAVALCKAA

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FIGURE 1432

GCCAAACACCAGAGCACCCCTAGAAGGTTTAACTAAAAGAATGCTCATGTTTGACCCAGTTCCTGTCAAGCAAGAG
GCCATGGACCCTGTCTCAGTGTTCATACCCATCTAATTACATGGAATCCATGAAGCCTAACAAGTATGGGGTCATC
TACTCCACACCATTCGCTGAGAAGTTCTTTCAGACCCAGAAAGGTCTGTGCGACGGAATACAGATGGAGCCAGTG
GACCTCACGGTGAACAAGCGGAGTTCACCCCTTCGGCTGGGAATTCGCCCTCCTCTCTGAAGTTCCCGTCCTCA
CACCGGAGAGCCTCGCCTGGGTGAGCATGCCTTCTTCCAGCCACCGATAAAAAAATACTCACCCCTTCTCCA
GGCGTGCAGCCCTTCGGCGTGCCGCTGTCCATGCCACCAGTGATGGCAGCTGCCCTCTCGCGGCATGGAATACGG
AGCCCGGGGATCCTGCCCGTCATCCAGCCGGTGGTGGTGCAGCCCGTCCCTTTATGTACACAAGTCACCTCCAG
CAGCCTCTCATGGTCTCCTTATCGGAGGAGATGGAAAATTCCAGTAGTAGCATGCAAGTACCTGTAATTGAATCA
TATGAGAAGCCTATATCACAGAAAAAATTAAAATAGAACCTGGGATCGAACCACAGAGGACAGATTATTATCCT
GAAGAAATGTCACCCCTTAATGAACTCAGTGTCCCCCGCAAGCATTGTTGCAAGAGAATCACCTTCGGTC
ATCGTGCAGCCTGGGAAGAGACCTTTACCTGTGGAATCCCGGATACTCAAAGGAAGCGGAGGATACACAGATGT
GATTATGATGGATGCAACAAAGTGTACACTAAAAGCTCCCACTTGAAAGCACACAGAAGAACACACACAGGAGAA
AAACCCTACAAATGTACATGGGAAGGGTGCACATGGAAGTTTGCTCGGTCTGATGAACTAACAAGACATTTCCGA
AAACATACTGGAATCAAACCTTTCAGTGCCCGGACTGTGACCGCAGCTTCTCCCGTTCTGACCATCTTGCCCTC
CATAGGAAACGCCACATGCTAGTCTGATTGCCTCTGTGTCTGCTCAGCGTGACTCCCCACTCACCTGGCTCTC
TCTCTGTCTGCTGCCATTCATTATCTAACACATTTTTTACATGTACATTTTAATTTGATTTCAGCTGGTCTGAATCTC
TGAATTTATATCATCCAAAACCTTCATATGGTCAGTAGTAGATGTTCTCTAATCCTCCCTCTCCTTACCACGGGT
CAGACCTAAAGAATGTGAACACTTTTTT

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FIGURE 1433

CCTTTCCGTCTGGCGGCAGCCATCAGGTAAGCCAAGATGGGTGCATACAAGTATATCCAGGAGCTATGGAGAAAG
AAGCAGTCTGATGTCACGCGCTTTCTTCTGAGGGTCCGCTGCTGGCAGTACCGCCAGCTCTCTGCTCTTCACAGG
GCTCCCCGCCCCACCCGGCCTGATAAAGCGCGCCAACCTGGGCTACAAGGCCAAGCAAGGTTACGTTATACATAGG
ATTTGTGTTAGCCGTGGTGGCCGAAAACGCCCAGTTCCCTAAGGGTGCAACTTACGGCAAGCCTGTCCATCATGGT
GTTAACCAGCTAAAATTTTGCTCGAAGCCTTCAGTCCGTTGCGGAGGAGCGAGCTGGACGCCACTGTGGGGCTCT
GGGAGTCCTGAATTCTTACTGGGTGGTGAAGATTCCACATACAAATTTTTTGAGGTTATCCTCATTGATCCATT
CCATAAAGCTATCAGAAGAAATCCTGACACCCCATGGATCACCAAACCAGTCCACAAGCACAGGGAGATGCGTGG
GCTGACATCTGCAGGCCGAAAGAGCCGTGGCCTTGGAAGGGCCATAAGTTCCACCACACTATTTGTGGTTCTCG
CCGGGCAGCTTGGAGAAGGCGCAATACTCTCCAGCTCCACCGTTACCGCTAATAACAAGTAAAGTTTGTAATAATC
ATACCTAATAAGTCTGCAGATGTTTCTTGAATGC

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FIGURE 1434

CAGCCATCAGGTAAGCCAAGATGGGTGCATACAAGTATATCCAGGAGCTATGGAGAAAGAAGCAGTCTGATGTCA
CGCGCTTTCTTCTGAGGGTCCGCTGCTGGCAGTACCGCCAGCTCTCTGCTCTTCACAGGGCTCCCCGCCCCACCC
GGCCTGATAAAGCGCGCCAACTGGGCTACAAGGCCAAGCAAGGTTACGTTATACATAGGATTTGTGTIAGCCGTG
GTGGCCGTAACCAGCTAAAATTTTGCTCGAAGCCTTCAGTCCGTTGCGGAGGAGCGAGCTGGACGCCACTGTGGG
GCTCTGGGAGTCCTGAATTCTTACTGGGTTGGTGAAGATTCCACATACAAATTTTTTGAGGTTATCCTCATTGAT
CCATTCCATAAAGCTATCAGAAGAAATCCTGACACCCCATGGATCACCAAACCAGTCCACAAGCACAGGG

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FIGURE 1435

GCCGCTGCCACCGCACCCGCCATGGAGCGGCCGTCGCTGCGCGCCCTGCTCCTCGGCGCCGCTGGGCTGCTGCT
CCTGCTCCTGCCCCCTCTCCTCTTCCTCCTCTTCGGACACCTGCGGCCCTGCGAGCCGGCCTCCTGCCCCCCCCCT
GCCCCCGCTGGGCTGCCTGCTGGGCGAGACCCGCGACGCGTGCGGGCTGCTGCCCTATGTGCGCCCGCGGCGAGGG
CGAGCCGTGCGGGGGTGGCGGCGCCGGCAGGGGGTACTGCGCGCCGGGCATGGAGTGCCTGAAGAGCCGCAAGAG
GCGGAAGGGTAAAGCCGGGGCAGCAGCCGGCGGTCCGGGTGTAAGCGGCGTGTGCGTGTGCAAGAGCCGCTACCC
GGTGTGCGGCAGCGACGGCACCACTACCCGAGCGGCTGCCAGCTGCGCGCCGCCAGCCAGAGGGCCGAGAGCCG
CGGGGAGAAGGCCATCACCCAGGTCAGCAAGGGCACCTGCGAGCAAGGTCCTTCCATAGTGACGCCCCCAAGGA
CATCTGGAATGTCACTGGTGCCAGGTGTACTTGAGCTGTGAGGTCATCGGAATCCCGACACCTGTCCTCATCTG
GAACAAGGTAAAAAGGGTCACTATGGAGTTCAAAGGACAGAACTCCTGCCTGGTGACCGGGACAACCTGGCCAT
TCAGACCCGGGGTGGCCCAGAAAAGCATGAAGTAACTGGCTGGGTGCTGGTATCTCCTCTAAGTAAGGAAGATGC
TGGAGAATATGAGTGCCATGCATCCAATTCCCAAGGACAGGCTTCAGCATCAGCAAAAATTACAGTGGTTGATGC
CTTACATGAAATACCAGTGAAAAAAGGTGAAGGTGCCGAGCTATTAAACCTCCAGAATATTATTAGTCTGCATGGT
TAAAAGTAGTCATGGATAACTACATTACCTGTTCTTGCCTAATAAGTTTCTTTTAATCCAATCCACTAACACTTT
AGTTATATTCACTGGTTTTACACAGAGAAATACAAAATAAAGATCACACATCAAGACTATCTACAAAAATTTATT
ATATATTTACAGAAGAAAAGCATGCATATCATTAACAAATAAAATACTTTTTATCACAAAAAAAAAAAAAAAAA

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FIGURE 1436

MERPSLRALLLGAAGLLLLLLPLSSSSSSDTGCPCEPASCPLPLPLGCLLGETRDACGCCPMCARGEGEPCGGGG
AGRGYCAPGMECVKSRKRRKGKAGAAAGPGVSGVCVCKSRYPVCGSDGTTYPSGCQLRAASQRAESRGEKAITQ
VSKGTCEQGPSIVTPPKDIWNVTGAQVYLSCEVIGIPTPVLINWKVKGHYGVQRTELLPGDRDNLAIQTRGGPE
KHEVTGWVLVSPLSKEDAGEYECHASNSQGQASASAKITVVDALHEIPVKKGEAEL

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FIGURE 1437

GGCACGAGGCTCGGGTCAAATGCGCGCCTCGGACCCTAGTGCGCGTGCGCGCTGGTGGCTCCGCCCCTTTGGAGC
TACTTCCTC**ATG**CTGCCCCGCTCGCCTACCGTTTCAGGCTGCTGAGCCTTTTCCTTCGTGGATCCGCTCCACGGCA
GCGCGCATATGGCTCCGGGAGCCGCTCCTGGAGAGGAGGTGCGCTGCCGCTCCTCCTTCCAGCACTCATCGAGT
CTGGGACGCGAGCTTCCTTATGACCCCGTGGACACGGAGGGCTTTGGAGAAGGTGGTGACATGCAGGAGCGTTTT
CTGTTCCCGGAGTACATCCTGGATCCGGAGCCGCAACCCACCCGCGAAAAGCAGCTGCAGGAGCTCCAGCAACAG
CAGGAGGAGGAGGAGCGACAGAGGCAGCAGCGGCGGGAGGAGCGGCGACAGCAAAACCTACGGGCCAGGTCCCGG
GAGCACCCGGTCGTGGGGCACCCGGACCCGGCATTGCCGCCAGCGGCGTGAAGTCTCGGGCTGCGGGGCAGAG
CTGCACTGCCAGGACGCCGAGTGGCCGGCTACCTGCCCCGAGAGAAGTTCTCCGCACGGCGGAGGCAGACGGC
GGGCTGGCACGGACCGTGTGCCAGCGCTGCTGGCTGCTGTGCGACCAACGGCGCGCTCTACGCCTGCAGGTGAGC
CGCGAGCAGTACCTGGAGCTGGTGAGCGCCGCGTTGCGGGCGGCCCCGGCCCCCTCCCTGGTGCTCTACATGGTGAGC
CTGCTGGACCTGCCCGACGCCCTGCTGCCCCGACTTGCCCCGCGCTGGTGGGCCCCAAGCAGCTGATCGTGCTGGGA
AACAAAGTGGACCTCCTGCCCCAGGATGCTCCTGGCTACCGGCAGAGGCTGCGGGAGCGACTGTGGGAGGACTGT
GCCCCGCGCCGGGCTCCTGCTGGCCCCCTGGCCACCAAGGGCCACAGCGCCCCGTCAAGGACGAGCCACAGGACGGG
GAGAATCCGAATCCGCCGAAGTGGTCCCGCACAGTGGTCAGGGACGTGCGGCTGATCAGCGCCAAGACCGGCTAT
GGAGTGAAGAGTTGATCTCTGCCCTTCAGCGCTCCTGGCGCTACCGTGGGGACGTCTACTTAGTGGGCGCCACC
AACGCCGGCAAATCCACTCTCTTTAACACGCTCCTGGAGTCCGATTACTGCACTGCCAAGGGCTCCGAGGCCATC
GACAGAGCCACCATCTCCCCTTGGCCAGGTACTACATTAAACCTTCTGAAGTTTCCTATTTGCAACCCAACTCCT
TACAGAATGTTTAAAAGGCATCAAAGACTTAAAAAAGATTCAACTCAAGCTGAAGAAGATCTTAGTGAGCAAGAA
CAAAATCAGCTTAATGTCTCAAAAAGCATGGTTATGTGCTAGGAAGAGTTGGAAGGACATTCTTGATTTCAGAA
GAACAGAAGGATAACATTCCCTTTGAGTTTGATGCTGATTCACTTGCCCTTGACATGGAAAATGACCTGTTATG
GGTACACACAAATCCACCAACAAGTAGAATTGACTGCACAAGATGTGAAAGATGCCCACTGGTTTTATGACACC
CCTGGAATTACAAAAGAAAATTGTATTTTAAATCTTCTAACAGAAAAAGAAGTAAATATTGTTTTGCCAACACAG
TCCATTGTTCCAAGAACTTTTGTGCTTAAACCAGGAATGGTTCTGTTTTTGGGTGCTATAGGCCGCATAGATTTT
CTGCAGGGAAATCAGTCAGCTTGGTTTACAGTCGTGGCTTCCAACATCCTCCCTGTGCATATCACCTCCTTGGAC
AGGGCAGACGCTCTGTATCAGAAGCATGCAGGTCATACGTTACTCCAGATTCCAATGGGTGGAAAAGAACGAATG
GCAGGATTTCTCCTCTTGTGCTGAAGACATTATGTTAAAAAGAAGGACTGGGGGCATCTGAAGCAGTGGCCGAC
ATCAAGTTTTCTCTGCAGGTTGGGTTTACAGTAACACCTAATTTTAAGGACAGACTGCATCTCCGAGGCTATACA
CCTGAAGGAACAGTTTTGACCGTCCGGCCCCCTCTCTTGCCATATATTGTTAACATCAAAGGACAGCGCATCAAG
AAAAGTGTGGCCTATAAAACCAAGAAGCCTCCTTCCCTTATGTACAACGTGAGGAAGAAGAAAGGAAAGATAAAT
GTAT**GAG**ACCGACCTTGTTCACTCCAGATATTAAGTGTATTGAACACAACAAATACATTGAATTTGTATTAAAC
ATATAACGCATAAATAAAGCTCCCATTCCTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1438

MLPARLPFRLLSLFLRGSAPTAARHGLREPLLEERRCAAASSFQHSSSLGRELPYDPVDTEGFEGEGGDMQERFLFP
EYILDPEPQPTREKQLQELQQQEEEEERQQRQORREERRQQNLRARREHPVVGHDPALPPSGVNCSGCCAELHC
QDAGVPGYLPREKFLRTAEADGGLARTVCQRCWLLSHHRRALRLQVSREQYLELVSAALRRPGPSLVLYMVDLLD
LPDALLPDLPALVGPKQLIVLGNKVDLLPQDAPGYRQRLRERLWEDCARAGLLLAPGHQGPQRPVKDEPQDGENP
NPPNWSRTVVRDVRLISAKTGYGVEELISALQRSWRYRGDVYLVGATNAGKSTLFNTLLES DYCTAKGSE AIDRA
TISPWP GTTLNLLKFPICNPTPYRMFKRHQRLKKDSTQAEEDLSEQEQNLNVLKKHGYVVGRVGRFTFLYSEEQK
DNIPFEFDADSLAFDMENDPVMGTHKSTKQVELTAQDVKDAHWFYDTPGITKENCILNLLTEKEVNIVLPTQSIV
PRTFVLKPGMVLF LGAIGRIDFLQGNQSAWFTVVASNILPVHITSIDRADALYQKHAGHTLLQIPMG GKERMAGF
PPLVAEDIMLKEGLGASEAVADIKFSSAGWVS VTPNFKDRLHLRGYTPEGTVLTVRPPLL PYIVNIKGQRIKKS V
AYKTKKPPSLMYNVRKKKGKINV

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FIGURE 1439

GAAAGCTGTATTTGCTGCACGTGGAAATCTCCGTTATTTTCCAGCACCCAACAGTAGCGTAATGGGAGTAACGGA
CTTAACCTCATTCTCTTTTCAGAGCATTTAGCCTTCATATGCCCTTCCCTGCATGCTTCCCCCAGGCCGTCAAGA
CTTGAGTTCTGCCTCGCTTCCCGGCGCGGTTCGAGCCCTCAGCCCACTTAGGATAATGGCGACAGCTGAGGTACT
GAACATTGGTAAAAAATTATATGAGGGTAAAACAAAAGAAGTCTACGAATTGTTAGACAGTCCAGGAAAAGTCCT
CCTGCAGTCCAAGGACCAGATTACAGCAGGAAATGCAGCTAGAAAAAACACCTGGAAGGAAAAGCTGCAATCTC
AAATAAAATCACCAGTTGTATTTTTCAGTTATTACAGGAAGCAGGTATTAAAACTGCCTTCACCAGAAAATGTGG
GGAGACAGCTTTCATTGCACCGCAGTGTGAAATGATTCCAATTGAATGGGTTTGCAGAAGAATAGCAACTGGTTC
TTTTCTCAAAAGAAATCCTGGTGTCAAGGAAGGATATAAGTTTTACCCACCTAAAGTGGAGTTGTTTTTCAAGGA
TGATGCCAATAATGACCCACAGTGGTCTGAGGAACAGCTGATTGCTGCAAAATTTTGCTTTGCTGGACTTCTTAT
AGGCCAGACTGAAGTGGATATCATGAGTCATGCTACACAGGCTATATTTGAAATACTGGAGAAATCCTGGTTGCC
CCAGAATTGTACACTGGTTGATATGAAGATTGAATTTGGTGTGATGTAACCACCAAAGAAATTGTTCTTGCTGA
TGTTATTGACAATGATTCTGGAGACTCTGGCCATCAGGAGATCGAAGCCAACAGAAAGACAAACAGTCTTATCG
GGACCTCAAAGAAAGTAACTCCTGAAGGGCTCCAAATGGTAAAGAAAACTTTGAGTGGGTTGCAGAGAGAGTAGA
GTTGCTTTTGAATCAGAAAGTCAGTGCAGGGTTGTAGTGTGATGGGCTCTACTTCTGATCTTGGTCACTGTGA
AAAAATCAAGAAGGCCCTGTGGAATTTTGGCATTCCATGTGAACCTCGAGTAACATCTGCGCATAAAGGACCAGA
TGAAACTCTGAGGATTAAAGCTGAGTATGAAGGGGATGGCATTCTACTGTATTTGTGGCAGTGGCAGGCAGAAG
TAATGGTTTGGGACCAGTGATGTCTGGGAACACTGCATATCCAGTTATCAGCTGTCTCCCTCACACCAGACTG
GGGAGTTCAAGGATGTGTGGTCTTCTCTTCGACTACCCAGTGGTCTTGGCTGTTCAACCGTACTTTCTCCAGAAGG
ATCAGCTCAATTTGCTGCTCAGATATTTGGGTAAAGCAACCATTGGTATGGAGCAAACCTGCGAGCAAGCATTTT
GAACACATGGATTTCTTGAAGCAGGCTGACAAGAAAATCAGAGAATGTAATTTATAAGAAAGAAATGCCATTGAA
TTTTTTAGGGGAAAAACTACAAATTTCTAATTTAGCTGAAGGAAAATCAAGCAAGATGAAAAGGTAATTTTAAAT
TAGAGAACACAAATAAAATGTATTAGTGAATAAATGCTTCTCTAGATCCATATTAATAAACATGAGCATCTAACC
CCTCCTTTCTTAGGCTAGACACCAAGATATTTAGCCAGCCTTTATCATTCTCTTACTTTATCCTTTTTCTTAA
AGTATTGGTGGTCACTACTATTGAGTTTCTTCTTAACACTGATTAAATGATCTTAACTCCCTCAGCTAAACTG
GCATTACTGACTCCCAGCTATATTTCTCCAGACTTGCATTTTTTTTTTTTTTTTGGAGACAGGGTCTCACTGTCTG
CCCAGGCTGGAGTGCAGTGGCGTGATCTCAGTTCAGTCTGCTTTCCCTCCTGGGCTCAAGCAGTTCTCCACCT
CAGCCTCTCGACTAACAGGGACTATAATCTTGCAGCACCATGCCGAGCTAATTTTATTTTTTGTAGAGATGAGCT
CTCACTATGTCACCCAGGTTTCGTCTCAAACCTCTGAACCCTAGTAATTTCTCTATCTCAGCCTCCCAAAGTGCTA
GGGTTACAGACATGAGCCACTGTGCCTGTCTAGACTTGTACTTTCAACTGTCCATTTCTCCCTGTCTGTCCCATG
GGCACTCATGAAAAAACAGAATGCTCCCACTTTATTCATCTTCCAAGCCTGTAGCTCTTGGTATACTCACTGTT
GCAAGTCAGAAGCTTGATTTTCATCATTGATGTTTTTCTCACGTTTCACATCTCACTCATCACCAAGTCATGTTGG
TGTTAATTTCTGATTAACCCCTGAATTTACCGTCTTCTCATCTCTGTACAAAAGCCTCAAGTGAGGGTCAAATT
CAACATTATCCTGATCTAGACAGCCCCATTCTCAATCCACCCTTTTCCAAGTTGATTGCCCAAGGACTTCTAAC
AATAAACTCTCTTTTGCACCACAGACTTCTTTGAAAATATACATGCTGTTGACCCCTCTCTGTAGAAAACCGCACA
CATAAACTTACCAACAGATTTTCATTGGTTCTTGGGTTCTCCCGAAGCCTATCCATGGTTTATAGATTAAGAATT
GATGAGGTAGCTGGGCACAGTGGCTCACACCTACGATCACAGCACTTCGGGAGGCTGAAGCAAGCAGATCACTTG
AGGTCAGGAGTTTGGAGACCAGCCTGGCCAACATGGTGAAACCTGTCTCTACTAAAAATACAAAAGTAGCCAGC
CGTGATGACAGGCACCTGTAATCCCAGCTACTCGGGAGGCTGAGGCATGAGAATTGCTTGAACCCGGGAGGCGGA
GGTTGCAGTGAGCCTAGATCATGCCACTGCACTCCAACCTGGGCAGCAGCAAGACTCTGTCTCAAAGGGGAA
AAAAAAATTTGCTGATGTGACCCATGAAGGGAACCTCATTTCCTCGTAATTTTGGACTGCCACACATTGGTACCT
TTAGTTCTCTGAAGGCCACGTTTTTATCATTAAAGACCTATTTGTTAGCTAGTAGAGCTTTATGTTTCGCTGTCCA
TGAAACCTTCTGTAACCACAGTGACTACAAGTAGTTCTTTCTCTATTGAATTATTAGGTCCAGAATAGAAGATGT
CATTGTACACTTTATTTCCCTCACACTGTGTTATGCTCTGATGTGCTATGCTTAGCTATCTGTCAGAGATTAGTA
AATTATAAACTCATGTGTACTACTTAAGTTTATATCTTATGCTAGTTTATAAGAACAATTAAGGACTTAGAA
GATTAA

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FIGURE 1440A

TCGGGAAGGAAGAGCCTGTGCGAGCGCGAGCTTCTGAGCTCGACGGGCCGAGCTGGCAGCTGGTTGGTGCTTAC
ACCTTGGCCGCAGCGGCAGGTCCTTCCACGTGCTTTTCGGCGGCGACATGGAGCTGGAGGAGTTGGGGATCCGAGA
GGAATGTGGCGTGTTCGGGTGCATCGCCTCAGGAGAGTGGCCCCACGCAGCTGGATGTACCGCATGTGATCACTCT
GGGACTCGTGGGGCTGCAGCACCCGGGGTCAGGAGAGTGTGGTATTGTGACTAGTGATGGGAGTTCCGGTGCCAAC
ATTCAAATCACACAAGGGAATGGGTCTTGTAATCACGTCTTTACTGAAGACAATTTGAAAAAATTATATGTTTC
AAATCTTGGAATTGGACACACCAGGTATGCCACCACAGGAAAATGTGAACTAGAAAAATTGTCAGCCCTTCGTTGT
TGAAACACTTCATGGGAAGATAGCTGTGGCACATAATGGCGAATTGGTAAATGCTGCTCGATTAAAGGAAAAGCT
TCTGCGTCATGGTATTGGTCTGTCTACAAGTTCTGATAGTGAAATGATTACCCAGTTACTGGCGTATACCCCTCC
TCAGGAACAAGATGACACCCAGACTGGGTAGCCAGGATTAAAAAATTGATGAAGGAAGCACCCACAGCATACTC
CCTGCTTATAATGCACAGAGATGTTATTTATGCAGTACGAGATCCTTATGGAATCGTCCCTTATGCATTGGTTCG
TCTTATTCCAGTGTCTGATATAAATGACAAAGAGAAAAAACATCAGAAACAGAAAGGATGGGTGGTGTCTTCAGA
ATCTTGTAGCTTCTTATCTATTGGTGCAAGATATTACCGTGAAGTCTTGCCCTGGAGAAATTGTGGAAATATCCAG
ACACAATGTCCAAACTCTTGATATTATATCAAGGTCTGAAGGAAACCCAGTGGCTTTTTGTATCTTTGAATATGT
TTATTTTGAAGACCAGACAGTATGTTTGAAGACCAAATGGTTTATACAGTAAGATACCGTTGTGGCCAGCAGCT
AGCGATTGAAGCACCTGTGGATGCAGATTTGGTTAGCACTGTTCCAGAATCTGCTACGCCTGCTGCTCTTGCTTA
CGCAGGAAAGTGTGGACTTCCATATGTGGAGGTGCTGTGTAAAAACCGGTATGTAGGGAGAACCTTCATTACGCC
AAACATGAGGTTAAGACAACCTTGGTGTGCAAAAAAATTTGGAGTATTGTCAGACAACCTTTAAAGGCAAAAGAAT
TGTTCTTGTAGATGATTCAATTGTCAGAGGCAATACCATCTCACCTATAATAAACTGCTCAAAGAATCTGGTGC
AAAAGAGGTACACATTCGAGTAGCTTACCACCAATTAAATATCCATGCTTCATGGGAATAAACATTCTACAAA
AGAAGAGCTCATTGCCAATAAACAGAAATTTGATCACCTTGAGAATATCTAGGAGCAAACAGTGTGTGTATCT
GTCAGTAGAAGGACTGGTTTCATCTGTACAAGAAGGGATAAAGTTAAAAAACAGAAAGAGAAAAAGCACGATAT
TATGATCCAAGAAAATGGAATGGTCTGGAATGTTTTGAAAAGAGTGGTCATTGTACAGCTTGTCTCACTGGAAA
ATATCCTGTAGAATTAGAATGGTAGCTGGTAGGGTTGGATGTGTGTAGTTTCAAGATAGAAAGTTGGTCAAGAAG
TTATAGTGGTCACACCTCATCTATTTACTGTTACTCAGTTGGTACAATGTAAAATGCCATGCTTATGTTTATAAG
TTTTGAGATTTTTTTTTTTTTCTGAAAAGGATACCAAAGTGCGATAACTGAACATTTCCAATTGCATATAATACAA
CAATATGTGGTGTCTTTTTTTTTTACACAAGCATTGGCTAGCCTTTTTTAACCTGGTCAGAGAAGGCAGGTGGTCAC
TGACATTTCCCAAGTCCATGCTTTAAAGGGTTTGCAAGAAGTTAGGGTTAAGGAGAGGTGATGCCAACAAGACAG
GTGAGTTAAATATACCATTTACACAAAGTTGAATAGAATACATTATACCTCATAGGTGTCTAGCCTCTACAGT
TCTGGCTGTAGTTATGACCTTGGCTTCCCTGTCTAACTGTAGACAAAATCTTTAAAAAATAATAATAATCTGG
TGCCTCAGTTTCCCCACATGTGCAATGGGATACTTATTAAATAATTAATAAGAATGTGAATAAGTGCATACCTT
TGTGATTTGAGCCATCATTTCACTTCTGATTTTAAAGACAACCTCATGATTGTTAGCTTTTCAGAAAGCTAATGATTG
TTAACTTTTTGAAATTAGTTTACAATTAATTAAGATTTTATTATGATGGAAGGAGACATAATTGGCAGATCTTTG
CCATCTCTCTTTGAGATGTCCTAAAAAGGGTTGTAAAAATCTGTGAAAAAGTTTTTCCCTACATTTGACTAGAAAA
TGTGATCCATAGTATTTAGTGCCCTGATACTATAAGCTCAGCAAGTAACCTGGTACATTTGAAATAAAAAACCAA
TTTTTAGATTCAAACAATCCCTTTATCCTTAATTTAATTAATTAATATCATATGCTTTTTTTAATGAAGTGCTTGATC
ACTTGCAAAACATATATACATGTAGATGTACATATACATGTACACATACACATAAATATTATTGCAATTAAGTGAT
CAAGTACAGACACAATAGGGGCCAGTTTTGTTTAAAGGATCAAAGAGACAACCCTTTGGGGAATTAGTATCAACT
TACAATCCAAGTCCAAGTATCATCTTATAATCACTTTTTTCTACTATATTAAGATCTAATGAATTTGATTTCTTT
TTTGAAGTTTTTTCTTGTAAACATCTGAGATTAGAAGTTTAAAGTGAAGTGTGACCCCAAACCTTTGTTTATGTAAGA
ATTTTTAAACATAAAAGTGTGTTTCTGTTATGTTACCATAATTTGATGTATATAGTGTCCAGATCCATTTAGA
AATTTAATATTTATTAATAACTGAACTGTTTGTCTTCCCTTGGTATATAGTCTCGCATATTATATTATAGCAGG
CCAAGATAAAATTTTGACAGCTCTTTAAGCCACATGCAGCAGTGGGTCAGATAACCTGTGGCAGTGACACGGG
CAAATTGGCATTGAAATAAAGCCCTGGGACCACCTCAACATGCGTAGCCTCTTGTCTTAAATGTACTCCCCATGG
CAGCATGGAGGAGGCAAGACCTGTGGGTCAATTTGAACTGGCCTTACTTTGATTTTTAAACAAGAGACTCAGG
GAAAGTACTAAACCAAAATCTCTGATTTTACTTTGCGTTTTCTGTAGTTTTTGTGTTTACTGAGATGCTTTTGTA
AGGAAAATAATACTGTGACAGTTTAGTAATTCTACAGATTCTTAATATTTCTCCATCATGGCCTTTTACTTCACA
ATTTTCTGAAGTCTGAATTCATTAACAATTTTTTTTTTACCAATTTAATCTCAAATGTTGTTTAACTGCTTTAAAT
TCATATACGTAGAGTATTATAAACTGCAGAGATGAAAAATGTGTTTTACGGGATTATATTGTGAAGTAACTA

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FIGURE 1440B

AGCCTACTTTTTGTGACTTATTTGTGATGCCTTGTTGATAAATATGTGTAATAAGTATGTTT

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FIGURE 1441

CTCTTTCCCATCTTGCAAGATGGCGGGTGAAAAAGTTTAGAAGCCAGATACTAAAGAGAAGAAACCCGAAGCCAA
GAAGACTGATGCTGGTGGCAAGGTGAAAAAGGGTAACCTCAAAGCTAAAAAGCCCAAGAAGGGGAAGCCCCGTTG
CAGCCGCAACCCTGTCCTTGTCAGAGGAATTGGCAGGTATTCCCGATCTGCCATGTATTCCAGAAAGGCCATGTA
CAAGAGGAAGTACTCAGCCGCTAAATCCAAGGTTGAAAAGAAAAAGAAGGAGAAGGTTCTTGCAACTGTTACAAA
ACCAGTTGGTGGTGACAAGAACGGCGGTACCCGGGTGGTTAACTTCGCAAAATGCCTAGATATTATCCTACTGA
AGATGTGCCTCGAAAGCTGTTGAGCCACGGCAAAAAAAACCCTTCAGTCAGCACGTGAGAAAACGCGAGCCAG
CATTACCCCGGGACCATCTGATCATCCTCACTGGACGCCACAGGGGCAAGAGGGTGGTTTTCTGAAGCAGCT
GGCTAGTGGCTTATTACTTGTGACTGGACCTCTGGTCCTCAATCGAGTTCCTCTATGAAGAACACACCAGAAATT
TGTCATTGCCACCTCAACCAAAATCGATATCAGCAATGTAAAAATCCCAAAACATCTTACTGATGCTTACTTCAA
GAAGAAGCAGCTGCGGAAGCCCAGACACCAGGAAGGTGAGATCTTCGACACAGAAAAAGGGAAATATGAGATTAC
GGAGCAGCGCAAGATTGATCAGAAAGCTGTGGACTCACAAATTTTATCAAAAATCAAAGCTATTCTCAGCTCCA
GGGCTAGTTGCGATCTGTGTTTGCCCTGACGAATGGAATTTATCCTCACAAATTGGTGTCTAAATGTCTTAAGA
ACCTAATTAAATAGCTGACTAC

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FIGURE 1442

GTTTTTAGTTTGTAGCTGCCTGGAGTGTTATTTTAAGAAAGCAGAAGCACCATCATTTCACACTCCTTATAGA
TCACACACCTTAACCCTGACTTTTTTTGCTCCAGTTTTTTCAGAAGAAGTGAAGTCAAGATGAAGAACCATTGCT
TTTCTGGGGAGTCCTGGCGGTTTTTATTAAGGCTGTTTCATGTGAAAGCCCAAGAAGATGAAAGGATTGTTCTTGT
TGACAACAAATGTAAGTGTGCCCGGATTACTTCCAGGATCATCCGTTCTTCCGAAGATCCTAATGAGGACATTGT
GGAGAGAAACATCCGAATTATTGTTCCCTCTGAACAACAGGGAGAATATCTCTGATCCCACCTCACCATTGAGAAC
CAGATTTGTGTACCATTGTTCTGACCTCTGTAAAAAATGTGATCCTACAGAAGTGGAGCTGGATAATCAGATAGT
TACTGCTACCCAGAGCAATATCTGTGATGAAGACAGTGCTACAGAGACCTGCTACACTTATGACAGAAACAAGTG
CTACACAGCTGTGGTCCCACTCGTATATGGTGGTGAGACCAAAATGGTGGAACAGCCTTAACCCCAAGATGCCCTG
CTATCCTGACTAATTTAAGTCATTGCTGACTGCATAGCTCTTTTTCTTGAGAGGCTCTCCATTTTGATTTCAGAAA
GTTAGCATATTTATTACCAATGAATTTGAAACCAGGGCTTTTTTTTTTTTTTGGGTGATGTAAACCAACTCCCT
GCCACCAAAATAATTAATAATAGTCACATTGTTATCTTTATTAGGTAATCACTTCTTAATTATATGTTTCATACTCT
AAGTATCAAAATCTTCCAATTATCATGCTCACCTGAAAGAGGTATGCTCTCTTAGGAATACAGTTTCTAGCATT
AACAAATAAACAAGGGGAGAAAATAAACTCAAGGACTGAAAATCAGGAGGTGTAATAAAATGTTCCCTCGCATT
CCCCCGCTTTTTTTTTTTTTTTTGGTACTTGCCTGGAGAGCCAGAGCTTCCGCATTTTCTTTACTATTCTTTTT
AAAAAAGTTTCACTGTGTAGAGAACATATATGCATAAACATAGGTCAATTATATGTCTCCATTAGAAAAATAAT
AATTGGAAAACATGTTCTAGAACTAGTTACAAAAATAATTTAAGGTGAAATCTCTAATATTTATAAAAAGTAGCAA
AATAAATGCATAATTAATAATATTTGGACATAACAGACTTGGAAGCAGATGATACAGACTTCTTTTTTTCATAA
TCAGGTTAGTGTAAGAAATTGCCATTTGAAACAATCCATTTTGTAAGTGAACCTTATGAAATATATGTATTTTCAT
GGTACGTATTCTCTAGCACAGTCTGAGCAATTAAATAGATTCATAAGCATA

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FIGURE 1443

GGTGCTGCAAGACTCTCTGGTAGAAAAATGAAGAGGGTCCTGGTACTACTGCTTGCTGTGGCATTGACATGCT
TTAGAGAGAGGCCGGGATTATGAAAAGAATAAAGTCTGCAAGGAATTCTCCCATCTGGGAAAGGAGGACTTCACA
TCTCTGTCACTAGTCCTGTACAGTAGAAAAATTTCCAGTGCGCACGTTTGAACAGGTCAGCCAACTTGTGAAGGAA
GTTGTCTCCTTGACCGAAGCCTGCTGTGCGGAAGGGGCTGACCCCTGACTGCTATGACACCAGGACCTCAGCACTG
TCTGCCAAGTCCTGTGAAAGTAATTCTCCATTCCCCGTTACCCAGGCACTGCTGAGTGCTGCACCAAAGAGGGC
CTGGAACGAAAGCTCTGCATGGCTGCTCTGAAACACCAGCCACAGGAATTCCCTACCTACGTGGAACCCACAAAT
GATGAAATCTGTGAGGCGTTTCAAGAAAGATCCAAAGGAATATGCTAATCAATTTATGTGGGAATATTCCACTAAT
TACGGACAAGCTCCTCTGTCACTTTTAGTCAGTTACACCAAGAGTTATCTTTCTATGGTAGGGTCCTGCTGTACC
TCTGCAAGCCCAACTGTATGCTTTTTGAAAGAGAGACTCCAGCTTAAACATTTATCACTTCTCACCCTCTGTCA
AATAGAGTCTGCTCACAATATGCTGCTTATGGGGAGAAGAAATCAAGGCTCAGCAATCTCATAAAGTTAGCCCAA
AAAGTGCCTACTGCTGATCTGGAGGATGTTTTGCCACTAGCTGAAGATATTACTAACATCCTCTCCAAATGCTGT
GAGTCTGCCTCTGAAGATTGCATGGCCAAAGAGCTGCCTGAACACACAGTAAACTCTGTGACAATTTATCCACA
AAGAATTCTAAGTTTGAAGACTGTTGTCAAGAAAAACAGCCATGGACGTTTTTGTGTGCACTTACTTCATGCCA
GCTGCCCAACTCCCCGAGCTTCCAGATGTAGAGTTGCCACAAACAAAGATGTGTGTGATCCAGGAAACACCAAA
GTCATGGATAAGTATACATTTGAACATAAGCAGAAGGACTCATCTTCCGGAAGTATTCTCAGTAAGGTACTTGAG
CCAACCTAAAAAGCCTTGGTGAATGCTGTGATGTTGAAGACTCACTACCTGTTTTAATGCTAAGGGCCCTCTA
CTAAAGAAGGAACCTATCTTCTTTTATTGACAAGGGACAAGAACTATGTGCAGATTATTCAGAAAATACATTTACT
GAGTACAAGAAAAAAGCTGGCAGAGCGACTAAAAGCAAAATTGCCTGATGCCACACCCACGGAAGTGGCAAAGCTG
GTTAACAAGCACTCAGACTTTGCCTCCAAGTCTGTTCCATAAACTCACCTCCTCTTTACTGTGATTTCAGAGATT
GATGCTGAATTGAAGAATATCCTGTAGTCTGAAAGCATGTTTATTAACCTTTGACCAGAGTTGGAGCCACCCAGGG
GAATGATCTCTGATGACCTAACCTAAGCAAAACCACTGAGCTTCTGGGAAGACAAGTGGATACTTTCTACTTTT
TCTAGCTACAATATCTTCATACAATGACAAGTATGATGATTGCTATCAAAATAAATTGAAATATAATGCAAACC
AT

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FIGURE 1444

MKRVLVLLLAFAFGHALERGRDYEKNKVCKEFSHLGKEDFTSLSLVLYSRKFPSGTFEQVSQLVKEVVSLTEACC
AEGADPDCYDTRTSALSAKSCESNSPFPVHPGTAECCCKEGLERKLCMAALKHQEQEFPTYVEPTNDEICEAFRK
DPKEYANQFMWEYSTNYGQAPLSLLVSYTKSYLSMVGSCCTSASPTVCFLKERLQLKHLSELLTTLNVRVCSQYAA
YGEKKSRLSNLIKLAQKVPTADLEDVLPLAEDITNILSKCCESASEDCMAKELPEHTVKLCDNLSTKNSKFEDCC
QEKAMDVVFVCTYFMPAAQLPELPDVELPTNKDVCDPGNTKVMKDYTFELSRRTHLPEVFLSKVLEPTLKSLGEC
CDVEDSTTCFNAKGPLLKKELSSFIDKGQELCADYSENTFTEYKKKLAERLKAKLPDATPTLAKLVNKHSDFAS
NCCSINSPPLYCDSEIDAELKNIL

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FIGURE 1445

AGCTTTTCTCTTCTGTCAACCCACACGCCTTTGGCACAATGAAGTGGGTAACTTTATTTCCCTTCTTTTTCTC
TTTAGCTCGGCTTATTCCAGGGGTGTGTTTCGTGAGATGCACACAAGAGTGAGGTTGCTCATCGGTTTAAAGAT
TTGGGAGAAGAAAATTTCAAAGCCTTGGTGTGATTGCCTTTGCTCAGTATCTTCAGCAGTGTCATTTGAAGAT
CATGTAAAATTAGTGAATGAAGTAACTGAATTTGCAAAAACATGTGTTGCTGATGAGTCAGCTGAAAATTGTGAC
AAATCACTTCATACCCTTTTGGAGACAAATTATGCACAGTTGCAACTCTTCGTGAAAACCTATGGTGAAATGGCT
GACTGCTGTGCAAAACAAGAACCCTGAGAGAAATGAATGCTTCTTGCAACACAAAAGATGACAACCCAAACCTCCCC
CGATTGGTGAGACCAGAGGTTGATGTGATGTGCACTGCTTTTCATGACAATGAAGAGACATTTTGGAAAAAATAC
TTATATGAAATTGCCAGAAGACATCCTTACTTTTATGCCCGGAACCTCTTTTCTTTGCTAAAAGGTATAAAGCT
GCTTTTACAGAATGTTGCCAAGCTGCTGATAAAGCTGCCTGCCTGTTGCCAAGCTCGATGAACTTCGGGATGAA
GGGAAGGCTTCGTCTGCCAAACAGAGACTCAAGTGTGCCAGTCTCCAAAATTTGGAGAAAGAGCTTTCAAAGCA
TGGGCAGTAGCTCGCCTGAGCCAGAGATTTCCCAAAGCTGAGTTTGAGAAGTTTCCAAGTTAGTGACAGATCTT
ACCAAAGTCCACACGGAATGCTGCCATGGAGATCTGCTTGAATGTGCTGATGACAGGGCGGACCTTGCCAAGTAT
ATCTGTGAAAATCAAGATTGATCTCCAGTAACTGAAGGAATGCTGTGAAAACCTCTGTTGGAAAAATCCCAC
TGCATTGCCGAAGTGGAAAAATGATGAGATGCCTGCTGACTTGCCTTCATTAGCTGCTGATTTTGTGAAAGTAAG
GATGTTTGGCAAAACTATGCTGAGGCAAAGGATGTCTTCTGGGCATGTTTTTGTATGAATATGCAAGAAGGCAT
CCTGATTACTCTGTGCTGCTGCTGCTGAGACTTGCCAAGACATATGAAACCACTCTAGAGAAGTGCTGTGCCGCT
GCAGATCCTCATGAATGCTATGCCAAAGTGTTCGATGAATTTAAACCTCTTGTGGAAGAGCCTCAGAATTTAATC
AAACAAAATTGTGAGCTTTTGTAGCAGCTTGGAGAGTACAAATTCAGAATGCGCTATTAGTTCGTTACACCAAG
AAAGTACCCCAAGTGTCAACTCCAACCTTGTAGAGGTCTCAAGAAACCTAGGAAAAGTGGGCAGCAAATGTTGT
AAACATCCTGAAGCAAAAAGAATGCCCTGTGCAGAAGACTATCTATCCGTGGTCCTGAACCAGTTATGTGTGTTG
CATGAGAAAACGCCAGTAAGTGACAGAGTCACCAAATGCTGCACAGAATCCTTGGTGAACAGGCGACCATGCTTT
TCAGCTCTGGAAGTCGATGAAACATACGTTCCCAAAGAGTTTAATGCTGAAACATTACCTTCCATGCAGATATA
TGCACACTTTCTGAGAAGGAGAGACAAATCAAGAAACAACTGCACTTGTTGAGCTCGTGAAACACAAGCCCAAG
GCAACAAAAGAGCAACTGAAAGCTGTTATGGATGATTTGCGAGCTTTTGTAGAGAAGTGCTGCAAGGCTGACGAT
AAGGAGACCTGCTTTGCCGAGGAGGGTAAAAAACTTGTGCTGCAAGTCAAGCTGCCTTAGGCTTATAACATCAC
ATTTAAAAGCATCTCAGCCTACCATGAGAATAAGAGAAAGAAAATGAAGATCAAAAGCTTATTCATCTGTTTTTC
TTTTTCGTTGGTGTAAGCCAACACCCTGTCTAAAAAACATAAATTTCTTTAATCATTTTGCCTCTTTTCTCTGT
GCTTCAATTAATAAAAAATGGAAAGAATCTAATAGAGTGGTACAGCACTGTTATTTTCAAAGATGTGTTGCTAT
CCTGAAAATTCTGTAGGTTCTGTGGAAGTTCCAGTGTCTCTCTTATTCCACTTCGGTAGAGGATTTCTAGTTTC
TTGTGGGCTAATTAAATAAATCATTAATACTCTTCTAAGTT

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FIGURE 1446

TCCATATTGTGCTTCCACCACTGCCAATAACAAAATAACTAGCAACCATGAAGTGGGTGGAATCAATTTTTTTTAA
TTTTCTACTAAATTTTACTGAATCCAGAACACTGCATAGAAATGAATATGGAATAGCTTCCATATTGGATTCTT
ACCAATGTACTGCAGAGATAAGTTTAGCTGACCTGGCTACCATATTTTTTGCCAGTTTGTTCAGAAGCCACTT
ACAAGGAAGTAAGCAAAATGGTGAAAGATGCATTGACTGCAATTGAGAAACCCACTGGAGATGAACAGTCTTCAG
GGTGTTTAGAAAACCAGCTACCTGCCTTTCTGGAAGAACTTTGCCATGAGAAAGAAATTTGGAGAAGTACGGAC
ATTGAGACTGCTGCAGCCAAAGTGAAGAGGGAAGACATAACTGTTTTCTTGACACAAAAAGCCCACTCCAGCAT
CGATCCCACTTTTCCAAGTTCAGAACCTGTCACAAGCTGTGAAGCATATGAAGAAGACAGGGAGACATTCATGA
ACAAATTCATTTATGAGATAGCAAGAAGGCATCCCTTCTGTATGCACCTACAATTCTTCTTTGGGCTGCTCGCT
ATGACAAAATAATTCCATCTTGCTGCAAAGCTGAAAATGCAGTTGAATGCTTCCAAACAAAGGCAGCAACAGTTA
CAAAAGAATTAAGAGAAAAGCAGCTTGTTAAATCAACATGCATGTGCAGTAATGAAAAATTTTGGGACCCGAAGTT
TCCAAGCCATAACTGTTACTAACTGAGTCAGAAGTTTACCAAAGTTAATTTTACTGAAATCCAGAACTAGTCC
TGGATGTGGCCCATGTACATGAGCACTGTTGCAGAGGAGATGTGCTGGATTGTCTGCAGGATGGGGAAAAATCA
TGTCTTACATATGTTCTCAACAAGACACTCTGTCAAACAAAATAACAGAATGCTGCAAACTGACCACGCTGGAAC
GTGGTCAATGTATAATTCATGCAGAAAATGATGAAAAACCTGAAGGTCTATCTCCAAATCTAAACAGGTTTTTAG
GAGATAGAGATTTTAACCAATTTTCTTCAGGGGAAAAAATATCTTCTTGCAAGTTTTGTTTCATGAATATTCAA
GAAGACATCCTCAGCTTGCTGTCTCAGTAATTCTAAGAGTTGCTAAAGGATACCAGGAGTTATTGGAGAAGTGTT
TCCAGACTGAAAACCTCTTGAATGCCAAGATAAAGGAGAAGAAGAATTACAGAAATACATCCAGGAGAGCCAAG
CATTGGCAAAGCGAAGCTGCGGCCTCTTCAGAACTAGGAGAATATTACTTACAAAATGCGTTTCTCGTTGCTT
ACACAAAGAAAGCCCCCAGCTGACCTCGTCGGAGCTGATGGCCATCACCAGAAAAATGGCAGCCACAGCAGCCA
CTTGTTGCCAACTCAGTGAGGACAACTATTGGCCTGTGGCGAGGGAGCGGCTGACATTATTATCGGACACTTAT
GTATCAGACATGAAATGACTCCAGTAAACCCTGGTGTGGCCAGTGCTGCACTTCTTCATATGCCAACAGGAGGC
CATGCTTCAGCAGCTTGGTGGTGGATGAAACATAIGTCCCTCCTGCATTCTCTGATGACAAGTTCATTTTCCATA
AGGATCTGTGCCAAGCTCAGGGTGTAGCGCTGCAAACGATGAAGCAAGAGTTTCTCATTAACCTTGTGAAGCAAA
AGCCACAAATAACAGAGGAACAACTTGAGGCTGTCATTGCAGATTTCTCAGGCCTGTTGGAGAAATGCTGCCAAG
GCCAGGAACAGGAAGTCTGCTTTGCTGAAGAGGGACAAAACTGATTTCAAAAACCTCGTGCTGCTTTGGGAGTTT
AAATTACTTCAGGGGAAGAGAAGACAAAACGAGTCTTTCATTCCGGTGTGAAGTCTTTCTTTAATTTTAACTGAT
TTAACACTTTTTGTGAATTAATGAAATGATAAAGACTTTTATGTGAGATTTCTTATCACAGAAATAAAATATCT
CCAAATG

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FIGURE 1447

MKWVESIFLIFLLNFTESTRTHRNEYGIASILDSYQCTAEISLADLATIFFAQFVQEATYKEVSKMVKDALTAIE
KPTGDEQSSGCLENQLPAFLEELCHEKEILEKYGHSDCCSQSEEGRHNCFLAHKKPTPASIPLFQVPEPVTSC
YEEDRETFMNKFIEIARRHPFLYAPTILLWAARYDKIIPSCCKAENAVECFQTKAATVTKELRESSLLNQHACA
VMKNFGTRTFQAITVTKLSQKFTKVNFTETIQKLVLDAHVHEHCCRGDVLDCLDGEEKIMSYICSQQDTLSNKIT
ECCKLTTLERGQCIIHAENDEKPEGLSPNLNRFLGDRDFNQFSSGEKNIFLASFVHEYSRRHPQLAVSVILRVAK
GYQELLEKCFQTENPLECQDKGEEELQKYIQESQALAKRSCGLFQKLGEYYLQNAFLVAYTKKAPQLTSSELMAI
TRKMAATAATCCQLSEDKLLACGEGAADIIIGHLCIRHEMTPVNPVGVCCTSSYANRRPCFSSLVDETYVPPA
FSDDKFIFHKDLCQAQGVALQTMKQEFLLNLVKQKPQITEEQLEAVIADFSGLLEKCCQGQEQEVCFAEEGQKLI
SKTRAALGV

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FIGURE 1448A

TCACCTTGCCGTGATATTTCCAGTGTGACAGGGACACAGCCAACGTGGGGTCCCTTCTAGGCTGACAGCCGCTCTCC
AGCCACTGCCGCGAGCCCGTCTGCTCCCGCCCTGCCCGTGCACCTCTCCGCAGCCGCCCTCCGCCAAGCCCCAGCG
CCCCGTCCCATCGCCGATGACCGCGGGGAGGAGGATGGAGATGCTCTGTGCCGGCAGGGTCCCTGCGCTGCTGCT
CTGCCTGGGTTTCCATCTTCTACAGGCAGTCCTCAGTACAACGTGTGATTCCATCATGTATCCCAGGAGAGTCCAG
TGATAACTGCACAGCTTTAGTTTCAGACAGAAGACAATCCACGTGTGGCTCAAGTGTCAATAACAAAGTGTAGCTC
TGACATGAATGGCTATTGTTTGCATGGACAGTGCATCTATCTGGTGGACATGAGTCAAACTACTGCAGGTGTGA
AGTGGGTTTACTGGTGTCCGATGTGAACACTTCTTTTTAACCGTCCACCAACCTTTAAGCAAAGAATATGTGGC
TTTGACCGTGATTCTTATTATTTTGTTCCTTATCACAGTCTGCGTTCCACATATTATTTCTGCAGATGGTACAG
AAATCGAAAAAGTAAAGAACCAGGAAGGAATATGAGAGAGTTACCTCAGGGGATCCAGAGTTGCCGCAAGTCTG
AATGGCGCCATCAAACTTATGGGCAGGGATAACAGTGTGCCTGGTTAATATTAATATTCCCATTTTATTAATAAT
ATTTATGTTGGGTCAAGTGTAGGTCAATAACACTGTATTTTAATGTACTTGAAAAATGTTTTATTTTGT
ATTTTGTACAGACTATTTGCTAATGTATAATGTGCAGAAAATATTTAATATCAAAAAGAAAATTGATATTTTATA
CAAGTAATTTTCTGAGCTAAATGCTTCATTGAAAGCTTCAAAGTTTATATGCCTGGTGCACAGTGTAGAAAGTA
AGCAATTTCCAGGTTCATAGCTCAAGAATTGTTAGCAAATGACAGATTTCTGTAAGCCTATATATATAGTCAAATC
GATTTAGTAAGTATGTTTTTATGTTCTCAAATCAGTGATAATTGGTTTGAAGTGTACCATGGTTTGATATGTAG
TTGGCACCATGGTATCATATATTAACAATAATGCAATTAGAATTTGGGAGAAGCAAATATAGGTCCTGTGTTA
AACACTACACATTTGAAACAAGCTAACCTGGGGAGTCTATGGTCTCTTCACTCAGGTCTCAGCTATAATTCTGT
TATATGAGGGGCGAGTGGACAGTTCCTATGCCAACTCACGACTCCTACAGGTACTAGTCACTCATCTACCAGATT
CTGCCTATGTAAAATGAATTGAAAAACAATTTCTGTAATCTTTTATTTAAGTAGTGGGCATTTTCATAGCTTCAC
AATGTTCTTTTTTTGTATATTACAACATTTATGTGAGGTAATTATTGCTCAACAGACAATTAGAAAAAGTCCAC
ACTTGAAGCCTAAATTTGTGCTTTTTAAGAATATTTTACTATTTCTTTTTATAGGGGCTTTGCTGAATTCTA
ACATTAATACAGCCCCAAATTTGATGGACTAATTATTATTTTAAATATATGAAGACAATAATTCTACATGTT
GTCTTAAGATGGAATACAGTTATTTTCATCTTTTATTCAAGGAAGTTTTAACTTTAATACAGCTCAGTAAATGGC
TTCTTCTAGAATGTAAAGTTATGTATTTAAAGTTGTATCTTGACACAGGAAATGGGAAAAAACTTAAAAATTAAT
ATGGTGTATTTTTCCAAATGAAAAATCTCAATTGAAAGCTTTTAAATGTAGAACTTAAACACACCTTCTCTGTG
GAGGCTGAGATGAAACTAGGGCTCATTTTCTGACATTTGTTTATTTTTTGAAGAGACAAAGATTTCTTCTGC
ACTCTGAGCCCATAGGTCTCAGAGAGTTAATAGGAGTATTTTGGGCTATTGCATAAGGAGCCACTGCTGCCACC
ACTTTTGGATTTTATGGGAGGCTCCTTCATCGAATGCTAAACCTTTGAGTAGAGTCTCCCTGGATCACATACCAG
GTCAGGGAGGATCTGTTCTTCTCTACGTTTATCCTGGCATGTGCTAGGGTAAACGAAGGCATAATAAGCCATGG
CTGACCTCTGGAGCACCAGGTGCCAGGACTTGTCTCCATGTGTATCCATGCATTATATACCCTGGTGCATCACA
CGACTGTCATCTAAAGTCTGGCCCTGGCCCTTACTATTAGGAAAATAAACAGACAAAAACAAGTAAATATATAT
GGTCATATACATATTGTATATATATTATATACAAACATGTATGTATACATGACCTTAATGGATCATAGAATTGC
AGTCATTTGGTGTCTGTCTAACCATTTATATAAACTTAAAAACAAGAGAAAAGAAAAATCAATTAGATCTAAAC
AGTTATTTCTGTTTCTTATTTAATACAGCTGAAGTCAAAATATGTAAGAACACATTTTAAATACTCTACTTACAG
TTGGCCCTCTGTGGTTAGTTCCACATCTGTGGATTCAACCAACCAAGGACGGAATGCTTAAAAAATAATACAA
CAACAACAAAAATACATTATAACAACATTTTACTTTTTTTTTCTTTTTGAGATGGAGTCTCGCTCTGTTGC
CCAGGTTGGAGTGCAGTGGCAGATCTCGGCTCACTGCAACCTCACCTCCCGGGTTCAAGAGATCCTCCTGCCTC
AGCCTCCTGAGCAGCTGGGACTACAGGCGCATGCCACCATGCCAGCTAATTTTTGTATTTTGTAGAGGCGGG
GTTTCACCATGTTGGCCAGGATGGTCTCAATCTCCTAACCTTGAGATCCACCCTCCACAGCCTCCCAAACCTGCTG
GGATTACAGGTGTGAGCCACCGCACGTAGCATTTACATTAGGTATTACAAGTAATGTAAAGATGATTTAAGTATA
CAGGAGGATGTGAATAGGTTATATGCAAGCACTATGCCCTTTATATAAGTGAAGTGAACATCTGTGCCCCGATTT
TAGTATGTGCAGGGGGGCGATCTGGGAATCAGTCCCCTGTGGATACCAAGGTACAACCTGTATTTATTAACGCTTA
CTAGATGTGAGGAGAGTCTGAATATTTTCACTGATCTTGGCTGTTTCAAAAAATCTATTGACTTTTCAATAAAT
CAGCTGCAATCCATTTATTTTCAATTTACAAAAGATTTATTGTAAGCATCTCAATCTTGGTTTGTGAGTTTATCTTA
AGCATGTCAATTCATAAAAACAAGTCATTTTGTATTTTTCATCTTTAAGAATGCTTAAAAAAGCTAATCCCTAA
AATAGTTAGATCTTTGTAAATGCATATTAAATAATAAAGTATGACCCACATTACTTTTTATGGGTGAAAATAAGA
CAAAAATAATAGTTTGTAGGATGGTGTGAGTAAACATAAAAACTGATTTGCTCTCAGCTGATGTGCTCTGT
ACACAGTGGGAAGATTTTAGTTTCACTTAGTCTAACTCCCCCATTTTACAGATTTCTCACTATATATATTTCTA

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FIGURE 1448B

GAAGGGGCTATGCATATTCAATGTATTGAGAACCAAAGCAACCACAAATGCATAAATGCATAATTTATGGTCTTC
AACCAAGGCCACATAATAACCCAGTTAACTTACTCTTTAACCAGGAATATTAAGTTCTATAACTAGTACTCAAGG
TTTAACCTTAAAATTAAGATTTCCCTAACCTTAACCTTAAAATTGATATTATATTAAACATACATAATAACAATGT
AACTCCACTGTTCTCCTGAATATTTTTTGCTCTAATCTCTCTGCCGAAAGTCAAAGTGATGGGAGAATTGGTATA
CTGGTATGACTACGTCTTAAGTCAGATTTTTATTTATGAGTCTTTGAGACTAAATTCAATCACCACCAGGTATCA
AATCAACTTTTATGCAGCAAATATATGATTCTAGTGTCTGACTTTTGTTAAATTCAGTAATGCAGTTTTTAAAAA
CCTGTATCTGACCCACTTTGTAATTTTTTGCTCCAATATCCATTCTGTAGACTTTTGAAAAAAAAGTTTTTAATTT
GATGCCCAATATATTCTGACCGTTAAAAAATTCTTGTTTCATATGGGAGAAGGGGGAGTAATGACTTGTACAAACA
GTATTTCTGGTGTATATTTTAATGTTTTTAAAAAGAGTAATTTCAATTTAAATATCTGTTATTCAAATTTGATGAT
GTTAAATGTAATATAATGTATTTCTTTTTATTTTGCACCTCTGTAATTGCACTTTTTAAGTTTGAAGAGCCATTT
TGGTAAACGGTTTTTTATTAAAGATGCTATGGAACATAAAGTTGTATTGCATGCAATTTGAAGTAACCTATTGAC
TATGAATGTTATCGGATTACTGAATTGTATCAATTTGTTTGTGTTCAATATCAGCTTTGATAATTGTGTACCTTA
AGATATTGAAGGAGAAAAATAGATAATTTACAAGATATTATTAATTTTTATTTATTTTTCTTGGAATTGAAAAA
ATTGAAATAAAATAAAAAATGCATTGAACATCTTGCAATTCAAAATCTTCACTGAC

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FIGURE 1449

CCCGCGAGCGGACGCGGCAGCGCCTCTGTCTCGCTTTTTCTTATTTTTTCCCCCCTTTCCCCTTTCTTTTTTTTTT
TTTCTTTTCTTTTCTCCCCCTCCCCCCTTTTACCATTTCCTCGGAGGCGCTTTCCCGGGCAGGGGCAGAGCC
GGTCTCACCCCCCGCCTCTCCCCGGCCCCCGCGCCCTATGGCGAGAGGGAGCCCCCTCCAACCCGGGCTCGAG
CGGCGGCGGCCTCAGGCCGGGGTTCATCATGGAATAATTCGCTGACCGACCCAGCGGCCGAGCCGTGCGTCCC
GCTCGAGCGCCAGCGCCCCGCGCCCCGCGCCCCCGATCCGCTTCCCCTTTCTCCCTCCTCAGTTGGCCGAGTCGTC
CCGCGCGCACCGCCTCCGCGCGCCTATGAGAATGAGGTGGTAACGGGCCCCCGGATGACCCCGCGTCACCACTGT
GAGGCCTACAGCTCTGCCGGGAGGAGGAGGAGGAGGAAGAGGAGGAGAAGGTAGCTACAGCAAGCTGGGTAGCA
GGCAGATCCAAAGGATATCATGAAGTTTCCAGGGCCTTTGGAAAACCAGAGATTGTCTTCTCTGTTGGAAAAGGC
AATCACTAGGGAAGCACAGATGTGGAAAGTGAATGTGCGGAAAATGCCTTCAAATCAGAATGTTTCTCCATCCCA
GAGAGATGAAGTAATTCAATGGCTGGCCAACTCAAGTACCAATTCAACCTTTACCCAGAAACATTGCTCTGGC
TAGCAGTCTTTTGGATAGGTTTTTAGCTACCGTAAAGGCTCATCCAAAATACTTGAGTTGTATTGCAATCAGCTG
TTTTTTCCTAGCTGCCAAGACTGTTGAGGAAGATGAGAGAATTCCAGTACTAAAGGTATTGGCAAGAGACAGTTT
CTGTGGATGTTCTCATCTGAAATTTTGAGAATGGAGAGAATTATTCTGGATAAGTTGAATTGGGATCTTCACAC
AGCCACACCATTGGATTTTCTTCATATTTTCCATGCCATTGCAGTGTCAACTAGGCCTCAGTTACTTTTCAGTTT
GCCCAAATTGAGCCCATCTCAACATTTGGCAGTCCTTACCAAGCAACTACTTCACTGTATGGCTGCAACCAACT
TCTGCAATTCAGAGGATCCATGCTTGCTCTGGCCATGGTTAGTCTGGAAATGGAGAAACTCATTCTGATTGGCT
TTCTCTTACAATTGAACTGCTTCAGAAAGCACAGATGGATAGCTCCAGTTGATCCATTGTCGGGAGCTTGTGGC
ACATCACCTTTCTACTCTGCAGTCTTCCCTGCCTCTGAATTCGTTTATGTCTACCGTCCCCCTCAAGCACACCCT
GGTGACCTGTGACAAAGGAGTGTTTCAATTACATCCCTCCTCTGTCCCAGGCCAGACTTCTCCAAGGACAACAG
CAAGCCAGAAGTGCCAGTCAGAGGTACAGCAGCCTTTTACCATCATCTCCAGCTGCCAGTGGGTGCAAGCAGAC
CTCTACTAAACGCAAAGTAGAGGAAATGGAAGTGGATGACTTCTATGATGGAATCAAACGGCTCTATAATGAAGA
TAATGTCTCAGAAAATGTGGGTTCTGTGTGTGGCACTGATTTATCAAGACAAGAGGGACATGCTTCCCCTTGTCC
ACCTTTGCAGCCTGTTTCTGTCTATGTAGTTTCAACAAGTGCTACCTTTGAGTGTAATAAGGTAGACTACTTTG
GGAATGAGAACATGCAAAATCAGGAAAGGCTGTAGAAGGAAATATACCTTAACAGGCTGATTGAGGTGAGCCAG
AAAAAAAAAATAAACTCTCATTATTTGTGTGGCTAATTATAATTCAGCGTTATTTAAGCACATAAAGACCAAAA
AAAAAAAAAAAAAAAAA

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FIGURE 1450

MKFFPGPLENQRLSFLLEKAITREMQMWKVNVRKMPSNQNVSPSQRDEVIQWLAKLKYQFNLYPETFALASSLLDR
FLATVKAHPKYLSCIAISCFFLAAKTVEEDERIPVLKVLARDSFCGCSSSEILRMERIILDKLNWDLHTATPLDF
LHIFHAIIVSTRPQLLFSLPKLSPSQHLAVLTKQLLHCMACNQLLQFRGSMLALAMVSLEMEKLIPDWLSLTIEL
LQKAQMDSSQLIHCRELVAAHHLSTLQSSPLNSVYVYRPLKHTLVTCDKGVFRLHPSSVPGPDFSKDNSKPEVPV
RGTAIFYHHLPAASGCKQTSTKRKVEEMEVDIFYDGIKRLYNEDNVSENVGSVCGTDLSRQEGHASPCPPLQPVS
VM

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FIGURE 1451

CCTGGACTCAGAGCTCAAGTCTGAACTCTACCTCCAGACAGAATGAAGTTCATCTCGACATCTCTGCTTCTCATG
CTGCTGGTCAGCAGCCTCTCTCCAGTCCAAGGTGTTCTGGAGGTCTATTACACAAGCTTGAGGTGTAGATGTGTC
CAAGAGAGCTCAGTCTTTATCCCTAGACGCTTCATTGATCGAATTCAAATCTTGCCCCGTGGGAATGGTTGTCCA
AGAAAAGAAATCATAGTCTGGAAGAAGAACAAGTCAATTGTGTGTGTGGACCCTCAAGCTGAATGGATACAAAGA
ATGATGGAAGTATTGAGAAAAAGAAGTTCTTCAACTCTACCAGTTCAGTGTTAAGAGAAAGATTCCCTGATGC
TGATATTTCCACTAAGAACACCTGCATTCTTCCCTTATCCCTGCTCTGGATTTAGTTTTGTGCTTAGTTAAATC
TTTTCCAGGAAAAAGAACTTCCCCATACAAATAAGCATGAGACTATGTAAAAATAACCTTGCAGAAGCTGATGGG
GCAAACCTCAAGCTTCTTCACTCACAGCACCCCTATATACACTTGGAGTTTGCATTCTTATTCATCAGGGAGGAAAG
TTTCTTTGAAAATAGTTATTCAGTTATAAGTAATACAGGATTATTTTGATTATATACTTGTGTGTTAATGTTTAA
AATTTCTTAGAAAACAATGGAATGAGAATTTAAGCCTCAAATTTGAACATGTGGCTTGAATTAAGAAGAAAATTA
TGGCATATATTAAAAGCAGGCTTCTATGAAAGACTCAAAAAGCTGCCTGGGAGGCAGATGGAACCTTGAGCCTGTC
AAGAGGCAAAGGAATCCATGTAGTAGATATCCTCTGCTTAAAAACTCACTACGGAGGAGAATTAAGTCCTACTTT
TAAAGAATTTCTTTATAAAATTTACTGTCTAAGATTAATAGCATTTCGAAGATCCCCAGACTTCATAGAATACTCA
GGGAAAGCATTATAAGGGTGATGTACACATGTATCCTTTACACATTTGCCTTGACAACTTCTTTCACTCACAT
CTTTTTCACTGACTTTTTTTGTGGGGGGCGGGGCGGGGGGACTCTGGTATCTAATTCTTTAATGATTCTTATAA
ATCTAATGACATTCAATAAAGTTGAGCAAACATTTTACTT

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FIGURE 1452

ATGGTTTATCAGACATCACTTTGTTCTTGTTCTGTAAACATCCGAGTGCCCAACAGACATTTTGCTGCTGCTACA
AAGTCTGCAAAGAAAACAAAAAAGGTGCTAAAGAAAAAACACCAGATGAGAAAAAGATGAAATAGAAAAAATA
AAAGCATATCCCTATATGGAAGGCGAACCTGAGGATGATGTCTATTTAAAACGCTTATACCCGAGACAGATATAT
GAGGTGGAGAAAGCTGTTCACTTACTTAAGAAATTTCAAATTCCTGACTTTACTAGTCCAAAGCAAAGTGTTTAT
CTTGATTTGACACTGGATATGGCACTGGGAAAGAAGAAAAACGTGGAGCCATTTACCAGTGTTCTTAGTTTGCCA
TACCCATTTGCTTCCGAAATCAATAAAGTTGCTGTATTTACAGAGAATGCATCAGAGGTCAAAATAGCGGAAGAA
AATGGAGCTGCATTTGCAGGAGGCACTAGTCTGATACAGAAGATTGGGATGATGAAATTGTTGCAGACTTTTAC
GTAGCTGTTCCAGAAATAATGCCTGAACTTAATCGATTAAAGGAAGAACTGAATAAAAAATATCCAAAGCTTTCT
CGAAATTCATTGGCCGTGACATCCCCAAAATGCTTGAATTATTTAAAAATGGACATGAAATTAAGGTAGATGAA
GAAAGGGAGAACTTTCTCCAGACCAAAATAGCAACATTGGATATGTCAAGTGACCAGATAGCTGCCAATCTGCAA
GCAGTTATTAATGAAGTTTGTAGGCACAGACCGCTGAATTTGGGTCCCTTTGTGGTACGTGCTTTCCTTCGTAGT
TCAACAAGTGAAGTTTATTACTGAAGATTGATCCATTGTTGCCTAAAGAAGTAAAAAATGAAGAAAGTGAAAAA
GAAGATGCCTAA

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FIGURE 1453

GTGGGAAGAGCTGAAGCAGGCGCTCTTGGCTCGGCGCGGCCGCTGCAATCCGTAGAGGAACCCGCCGCCGAGCC
ACCATC**ATG**CCTGGGCACTTACAGGAAGGCTTCGGCTGTGTGGTCACCAACCGATTTCGACCAGTTATTTGACGAC
GAATCGGACCCCTTCGAGGTGCTGAAGGCAGCGGAGAACAAGAAAAAGAAGCCGGCAGGGGTGGCGTTGGGGGC
CCTGGGGCCAAGAGCGCAGCTCAGGCGGCGGCCAGACCAACTCCAACGCGGCAGGCAAACAGCTGCGCAAGGAG
TCCCAGAAAGACCGCAAGAACCCGCTGCCCCGACGCTTGGCGTGGTTGACAAGAAAGAGGAGACGCAGCCGCC
GTGGCGCTTAAGAAAGAAGGAATAAGACGAGTTGGAAGAAGACCTGATCAACAACCTTCAGGGTGAGGGGAAAATA
ATTGATAGAAGACCAGAAAGGCAACCACCTTGTGAACGAAGATTGAAAAGCCACTTGAAGAAAAGGGTGAAGGA
GGCT**AA**TTTTTCAGTTGATAGACCGATTATTGACCGACCTATTGAGGTCGTGGTGGTCTTGGAAGAGGTCGAGGG
GGCCGTGGACGTGGAATGGGCCGAGGAGATGGATTGTCTCGTGGCAAACGTGAATTTGATAGGCATAGTGGA
AGTGATAGATCTTCTTTTCACATTACAGTGGCCTGAAGCACGAGGACAAACGTGGAGGTAGCGGATCTCACAAAC
TGGGGAAGTGTCAAAGACGAATTAAGTACTTGGATCAATCAAATGTGACTGACGAAACACCTGAAGGTGAAGAA
CATCATCCAGTGGCAGACACTGAAAAAAGGAGAATGATGTTGAAGAGGTAAAAGAGGAGGGTCCAAAAGAGATG
ACTTTGGATGAGTGAAGGCTATTCAAATAAGGACCGGGCAAAGTAGAATTTAATATCTGAAAACCAAATGAA
GGTGCTGATGGGCAGTGAAGAAGGGATTTGTTTTCATAAATCAAAGAGTGAAGAGGCTTATGCTGAGGATTCAG
TTATGGACCATCATTTCCAGAAGCCAGCAAATGATATAACGTCTCAGCTGGAGATCAATTTTGGAGACCTTGGCC
GCCCAGGACGTGGCGGCAGGGGAGGACAAGGTGGACATGGGCGTGGTGGGCGCCCAAACCGTGGCAGCAGGACCG
ACAAGTCAAGTACTTCTGCTCCTGATGTGGATGACCCAGAGGCATTCCCAGTTCTGGCTTAAGTGGATGCCATAA
GACAACCTGGTTCCCTTCGTGAACCCCTTCTGTTCAAAGCTTTTGCATGCTTAAGGATTCCAAATGACAAATTAAA
AAAAAAAAAAGACTGTCATTATACCATTCACACCTAAAGACTGAATTTTATCTGTTTCAAAAATGAACTTATCT
CGCTACACAGAAGTAACAAATATGGTAGTCAGTTTTGTATTTAGAAATGTATTGGTAGCAGGGATGTTTTATATA
TTTTCAGAGATTATGCATTCTTCATGAATACTTTTGTATTGCTGCTTGCAAATATGCATTTCCAAACTTGAAATA
TAGGTGTGAACAGTGTGTACCAGTTTAAAGCTTTCACTTCATTTGTGTTTTTAATTAAGGATTTAGAAGTTCCT
CCAATTACAACTGGTTTTAAATATTGGACATACTGGCTTAAATACATGCTTTGCATATTCACACATGATCAACT
GGGACATGTTAACTTTGATTTGTCAAATTTTATTCTGTGTGGAATACTAATACTATATGTATTTAACTTAGTTTT
AATATTTTCATTTTGGGGAAAAATCTTTTTTCACTTCTCATGATAGCTGTTATATATATATGCTAAATCTTTAT
ATACAGAAATATCAGTACTTGAAGAAA

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FIGURE 1454

MPGHLQEGFGCVVTNRFDQLFDDSDPFEEVLKAAENKKKEAGRGGVGGPGAKSAAQAAAQTNNAAGKQLRKESQ
KDRKNPLPRSVGVVDKKEETQPPVALKKEGIRRVGRRPDQQLQEGEKIIDRRPERQPPCERRFEKPLEEKGEKG

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FIGURE 1455

AGACGCAGTCTCCGTCGTTGACGTTAGTCGCAGTCTTCGCTGCTAACGTTTTGTTATGAGTTGCTAAAATGGTGA
AATGCTGCTCCGCCATTGGATGTGCTTCTCGCTGCTTGCCAAATTCGAAGTTAAAAGGACTGACATTTACGTAT
TCCCCACAGATGAAAACATCAAAAGGAAATGGGTATTAGCAATGAAAAGACTTGATGTGAATGCAGCCGGCATT
GGGAGCCTAAAAAAGGAGATGTGTTGTGTTTCGAGGCACTTTAAGAAGACAGATTTTGACAGAAGTGCTCCAAATA
TTAAACTGAAACCTGGAGTCATACCTTCTATCTTTGATTCTCCATATCACCTACAGGGGAAAAGAGAAAACTTC
ATTGTAGAAAAAATTCACCTCAAAACCGTTCCAGCCACTAACTACAATCACCATCTTGTTGGTGCTTCCTCAT
GTATTGAAGAATTCCAATCCCAGTTCATTTTTGAACATAGCTACAGTGTAATGGACAGTCCAAAGAACTTAAGC
ATAAATTAGATCATGTGATCGGCGAGCTAGAGGATACAAAGGAAAGTCTACGGAATGTTTTAGACCGAGAAAAAC
GTTTTTCAGAAATCATTGAGGAAGACAATCAGGGAATTAAAGGATGAATGTCTGATCAGCCAAGAAACAGCAAATA
GACTGGACACTTTCTGTTGGGACTGTTGTCAGGAGAGCATAGAACAGGACTATATTTTCATGAAATAATTTTCATGT
TACGTTCCACCTAAAATTGTCATTGGTACAAATTTTTATAAAATCTCATTTACCATCACTAAATAATATCCATCA
TTTAAAGTGCTGCTTTGGATTCTCTGGAGCATTATGCATTATAGTTGTTATCCAAAGACTTTTTTGAAAAATATGC
AGAAATTTGTGGTAATTATGATTTGTGCTTGTGACAATTATGTTTTATAGACCTACACTAGTGCCAGGTCACCT
ATTGTAAGATGTTAAAATCTCAAGAAAATTTACAGAGCTAAAGAAATGATGTCAAATTAGTCACATTAAGCTAT
AGTAGAAGGAATTGGACACTTCTCCAGATATTTGGCTTCAAGGAGTACCTTTACTTACATGTGCTTTATGGTAA
GTACATTGAATTTTACTTTAAATGCATTTTACTACAAAGCACAAATTCATTTGTAATGCATATCCATCTTGGATT
AATCCAAGGTGCTTTAGCTATCAGTAGTACCAAAGGATCTTTTTACAAGGCTTCTGTGGTATTGACTCTGAGAA
TAACACATAGTGAAGATCTGTGGGCTTTTAAAATTGTTACAGCCAATTTAAGAAGACCCCTCATGAAGTCTCAG
TTTTCAGTACAGTACATCATTCTCTCCTCACTAGGAGCACTTTGATGTAAACCAGAATAGCTTTAAAAAGACAAAA
AGGATCGTAGATCTGATTTTTTAAATGGTTGGTTGCTCTGACAGATCTGAACACTTTGCTTCATGACTATTTTCGTC
ATAAAGGTATATGTTTTAAATCTGAATGGCAGTACTAGCTCTATACTTTTAATACTGCTTTGTATTTTATATGTA
AAGTAGTATTGCTGACATTTTAAAAAATACAAAATACAAAAGAAACCATTAGAAATTAATACTGTGGCTCTTC
CAGTTGAAATAGGAATTGGAGAGAAAGGATTAGAATATTTTAATTAGGGGAGTAGATTATTGTCCAAAGGCTTTT
ATTTAGAGAAACGGGTAATTAAAACAGCAGCTTTAGAATAGCTTCTTACTGAATATGCAAAGAATAATTCCTTG
TTATTTTCTAATTGATCCAAGTCTCATAAATTTAGCTTTTGTCTAATTCCTTACCGAAAACAACTGAAATTGAG
AGTCATAAATACTGTGGGTAGAAATAAAAACCATTTGCCAAAGCAACACTCTACTTAGAAGCACATGTACATACA
TGGACCTCATTGAGAAGTCCATGTTGTAGCAGTTAGAATTTGAGTATCAGCCATTTTCATTGTAGTAACAAAAAT
GAATTGCATTTTGTGCTCAGTTGTTTATTGTAATTTTATTTTGTACATTAATATTAGTTAAGATATGGTCACT
TGAATTTTTTGTATTTAAGAATTTTCTGTTTTAATGCATGTTATACTTTTATGTAGGATTCCAAACCTTCCCTCT
AAATGGGATTTAACCCACATCTGCGAGATCAGCGTTATGCTAAGAGGAAATCACTGAGGCCATATCTTTTTACAA
TCTGAAAAAAAAGTAGTAAAAAGGTAGTTAAAAA

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FIGURE 1456

CGGCGCCATTAAAGCGAGGAGGAGGCGAGAGCGGCCGCCGCTGGTGCTTATTCTTTTTTAGTGACGCGGGAGAGA
GCGGGAGTGTGCGCCGCGCGAGAGTGGGAGGCGAAGGGGGCAGGCCAGGGAGAGGCGCAGGAGCCTTTGCAGCCA
CGCGCGCGCCTTCCCTGTCTTGTGTGCTTCGCGAGGTAGAGCGGGCGCGCGGCAGCGGCGGGGATTACTTTGCTG
CTAGTTTCGGTTCGCGGCAGCGGCGGGTGTAGTCTCGGCGGCAGCGGCGGAGACACTAGCACTATGTCTGGAGGAG
CAGTTCGGCGGGGACGGGGCGGCGGCAGCGGCAACGGCGGCGGTAGGCGGCTCGGCGGGCGAGCAGGAGGGAGCC
ATGGTGGCGGCGACACAGGGGGCAGCGGCGGCGGCGGGAAGCGGAGCCGGGACCGGGGGCGGAACCGCGTCTGGA
GGCACCGAAGGGGGCAGCGCCGAGTCGGAGGGGGCGAAGATTGACGCCAGTAAGAACGAGGAGGATGAAGGCCAT
TCAAACTCCTCCCCACGACACTCTGAAGCAGCGACGGCACAGCGGGAAGAATGGAAAATGTTTATAGGAGGCCTT
AGCTGGGACACTACAAAGAAAGATCTGAAGGACTACTTTTCCAAATTTGGTGAAATTGTAGACTGCACTCTGAAG
TTAGATCCTATCACAGGGCGATCAAGGGGTTTTGGCTTTGTGCTATTTAAAGAATCGGAGAGTGTAGATAAGGTC
ATGGATCAAAAAGAACATAAATTGAATGGGAAGGTGATTGATCCTAAAAGGGCCAAAGCCATGAAAACAAAAGAG
CCGGTTAAAAAATTTTTGTTGGTGGCCTTTCTCCAGATACACCTGAAGAGAAAATAAGGGAGTACTTTGGTGGT
TTTGGTGAGGTGGAATCCATAGAGCTCCCCATGGACAACAAGACCAATAAGAGGCGTGGGTTCTGCTTTATTACC
TTTAAGGAAGAAGAACCAGTGAAGAAGATAATGGAAAAGAAATACCACAATGTTGGTCTTAGTAAATGTGAAATA
AAAGTAGCCATGTCGAAGGAACAATATCAGCAACAGCAACAGTGGGGATCTAGAGGAGGATTTGCAGGAAGAGCT
CGTGGAAGAGGTGGTGACCAGCAGAGTGGTTATGGGAAGGTATCCAGGCGAGGTGGTCATCAAATAGCTACAAA
CCATACTAAATTATTCCATTTGCAACTTATCCCCAACAGGTGGTGAAGCAGTATTTTCCAATTTGAAGATTCATT
TGAAGGTGGCTCCTGCCACCTGCTAATAGCAGTTCAAATAAATTTTTTGTATCAAGTCCCTGAATGGAAGTATG
ACGTTGGGTCCCTCTGAAGTTTAATTCTGAGTTCTCATTAAAAGAAATTTGCTTTCATTGTTTTATTTCTTAATT
GCTATGCTTCAGAATCAATTTGTGTTTTATGCCCTTTCCCCCAGTATTGTAGAGCAAGTCTTGTGTTAAAAGCCC
AGTGIGACAGTGTGATGTAGTAGTGTCTTACTGGTTTTTTAATAAATCCTTTTGTATAAAAATGTATTGGCT
CTTTTATCATCAGAATAGGAAAAATTGTCATGGATTCAAGTTATTAAAAGCATAAGTTTGGAAGACAGGCTTGCC
GAAATTGAGGACATGATTAAAATTGCAGTGAAGTTTGAAATGTTTTTAGCAAAATCTAATTTTTGCCATAATGTG
TCCTCCCTGTCCAAATTGGGAATGACTTAATGTCAATTTGTTTGGTTGTTTTAATAATACTTCCTTATGTAG
CCATTAAGATTTATATGAATATTTTCCCAAATGCCAGTTTTTGCTTAATATGTATTGTGCTTTTTAGAACAAAT
CTGGATAAATGTGCAAAAGTACCCCTTTGCACAGATAGTTAATGTTTTATGCTTCCATTAAATAAAAAGGACTTA
AAATCTGTTAATTATAATAGAAATGCGGCTAGTTCAGAGAGATTTTTAGAGCTGTGGTGGACTTCATAGATGAAT
TCAAGTGTTGAGGGAGGATTAAAGAAAT

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FIGURE 1457A

[illegible]

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FIGURE 1457B

CAGAAGGATTGACCATGCATACCCACATAGTTAGCACCAGCAACTTCAGTGAGACCTCTGCTTTCATGCCAGTTC
TCAAAGTTGTTCTCAGGCAATAAGCTGGGTGTCTAAAGGACAGCTTCTCTTCCACTCAATATTGCCATT
TTTCCAAAGAAACATGTTAAAAAAAAAAATTATAAGACATGGACTAGTCCTCATTAGCATGTTTGCATAGCAACC
AGTCAAGAGCATTACACTATTTCTGCTGATATACTCACCTTAGAACTGCTCAGAACCCTGGTGCTTTATTTTG
TTTTAATCTTTTGTGCCAGTGATGATTTTCCTATTCTGCAAATAGTGTATTTCTGGATTACACATAGTATGGT
TTCCTGAAGTATTCTGATAAATGTGTTTTTTTAAACCTCAATATACTTTTGTAGAAAAGGAGCATCTGGTTATGC
ATAAAGCAGAGCTAAACTAAATTTCTTTCATGTCCTCCCTACTTCTCAGTGTCAATCAGATTAAAGTGTGTAA
TCCT

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FIGURE 1458

MKLKEVDRTAMQAWSPAQNHP IYLATGTSAQQLDATFSTNASLEIFELDLSDPSLDMKSCATFSSSHRYHKLIWG
PYKMDSKGDVSGVLIAGGENGNII LYDPSKIIAGDKEVVIAQNDKHTGPVRALDVNIFQTNLVASGANESIYIW
DLNNFATPMTPGAQTQPPEDISCIAWN RQVQHILASASPSGRATVWDLRKNEPIIKVSDHSNRMHCSGLAWHPDV
ATQMVLA SEDDRLPVIQMWDLR FASSPLRVLENHARGILAI AWSMADPELLLS CGKDAKILCSNPNTGEVLYELP
TNTQWCFDIQWCPRNPAVL SAASFDGRISVYSIMGGSTDGLRQKQVDKLSSSF GNLDPF GTGQPLPPLQIPQQT
QHSIVLPLKKPPKWIRRPVGASF SFGGKLVT FENVRMPSHQGAEQQQQHHVFISQVVTEKEFLSRSDQLQQAVQ
SQGFINYCQKKIDASQTEFEKNVWSFLKVNFEDDSRGKYLELLGYRKEDLGKKIALALNKVDGANVALKDSQVA
QSDGEESPAEEQLLGEHIKEEKEESEFLPSSGGTFNISVSGDIDGLITQALLTGNFESA VDLCLHDNRMA DAI I
LAIAGGQELLARTQKKYFAKSQSKITRLITAVVMKNWKEIVESCDLKNWREALAAVLT YAKPDEFSALCDLLGTR
LENEGDSL LQTQACLCYICAGNVEKLVACWTKAQDGSHP LSLQDLIEKV VILRKAVQLTQAMDTSTVGVLLAAKM
SOYANLLAAQGSIAAALAF LPDNTNQPNIMQLRDRLCRAQGE PVAGHESPKIPYEKQQLPKGRPGPVAGHHQMPR
VQTQQYYPHGENPPPPGFIMHGNVNPNASGQLPTSPGHMHTQVPPYPQPYQPAQPYPF GTGGSAMYRPQQPVA
PPTSNAYPNTPYISSASSYTGQS QLYAAQHQASSPTSSPATSFPPPPSSGASFQHGPGAPPSSSAYALPPGTTG
TLPAASELPASQRTGPGQNGWNDPPALNRVPKKKKMPENFMPPVPI TSPIMNPLGDPQS QMLQQQP SAPVPLSSQS
SFPQPHLPGGQPFHGVQQPLGQTGMPPSFSKPNIEGAPGAPIGNTFQHVQSLPTKKITKKPIPDEHLILKTT FED
LIQRCLSSATDPQTKRK LDDASKRLEFLYDKLREQTLSP TITSGLHNIARSIETRNYSEGLTMHTHIVSTSNFSE
TSAFMPVLKVVL TQANKLG V

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FIGURE 1459

GCAGAGCACAGCATCGTCGGGACCAGACTCGTCTCAGGCCAGTTGCAGCCTTCTCAGCCAAACGCCGACCAAGGA
AAACTCACTACCATGAGAATTGCAGTGATTTGCTTTTGCCTCCTAGGCATCACCTGTGCCATACCAGTTAAACAG
GCTGATTCTGGAAGTTCTGAGGAAAAGCAGCTTTACAACAAATACCCAGATGCTGTGGCCACATGGCTAAACCCT
GACCCATCTCAGAAGCAGAATCTCCTAGCCCCACAGACCCTTCCAAGTAAGTCCAACGAAAGCCATGACCACATG
GATGATATGGATGATGAAGATGATGATGACCATGTGGACAGCCAGGACTCCATTGACTCGAACGACTCTGATGAT
GTAGATGACACTGATGATTCTCACCAGTCTGATGAGTCTCACCATTCTGATGAATCTGATGAACTGGTCACTGAT
TTTCCACGGACCTGCCAGCAACCGAAGTTTTCTACTCCAGTTGTCCCCACAGTAGACACATATGATGGCCGAGGT
GATAGTGTGGTTTTATGGACTGAGGTCAAAATCTAAGAAGTTTCGCAGACCTGACATCCAGTACCCTGATGCTACA
GACGAGGACATCACCTCACACATGGAAAGCGAGGAGTTGAATGGTGCATACAAGGCCATCCCCGTTGCCCAGGAC
CTGAACGCGCCTTCTGATTGGGACAGCCGTGGGAAGGACAGTTATGAAACGAGTCAGCTGGATGACCAGAGTGCT
GAAACCCACAGCCACAAGCAGTCCAGATTATATAAGCGGAAAGCCAATGATGAGAGCAATGAGCATTCCGATGTG
ATTGATAGTCAGGAACCTTTCCAAAGTCAGCCGTGAATTCACAGCCATGAATTTACAGCCATGAAGATATGCTG
GTTGTAGACCCCAAAGTAAGGAAGAAGATAAACACCTGAAATTTTCGTATTTCTCATGAATTAGATAGTGCATCT
TCTGAGGTCAATTTAAAAGGAGAAAAAATACAATTTCTCACTTTGCATTTAGTCAAAAGAAAAAATGCTTTATAGC
AAAATGAAAGAGAACATGAAATGCTTCTTTCTCAGTTTATTGGTTGAATGTGTATCTATTTGAGTCTGGAAATAA
CTAATGTGTTTGATAATTAGTTTAGTTTGTGGCTTCATGGAACTCCCTGTAAACTAAAAGCTTCAGGGTTATGT
CTATGTTTATTCTATAGAAGAAATGCAAACTATCACTGTATTTTAATATTTGTTATTCTCTCATGAATAGAAATT
TATGTAGAAGCAAACAAAATACTTTTACCCACTTAAAAAGAGAATATAACATTTTATGTCATAATCTTTTGT
TTTTTAAGTTAGTGTATATTTTGTGTGATTATCTTTTGTGGTGTGAATAAATCTTTTATCTTGAATGTAATAA
GAATTTGGTGGTGTCAATTGCTTATTTGTTTTCCACGGTTGTCCAGCAATTAATAAAACATAACCTTTTTTACT
GCCTAAAAA~~AAAAAAAAAAAAAAAA~~

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FIGURE 1460

MRIAVICFCLLGITCAIPVKQADSGSSEKQLYNKYPDAVATWLNPDPSQKQNLLAPQTLPSKSNESHDMDDMD
DEDDDDHVDSQDSIDSNDSDDVDDTDDSHQSDSHHSDSEDELVTDFPTDLPATEVFTPVVPTVDITYDGRGDSVV
YGLRSKSKKFRRPDIQYPDATDEDITSHMESEELNGAYKAIPVAQDLNAPSDWDSRGKDSYETSQLEDDQSAETHS
HKQSRLYKRKANDESNEHSDVIDSQELSKVSREFHSHEFHSHEDMLVDPKSKEEDKHLKFRISHELDSASSEVN

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FIGURE 1461

CTCCAGCACAGCGTTGGTGTGCTGCTGGGTATCAGAAAGCAAGCTCACATTGCTCTCCAGTACGTGTAAGCCTTTT
CTTTTCAAGATGCCTGAGGAAGTGCACCATGGAGAGGAGGAGGTGGAGACTTTTGCCTTTCAGGCAGAAATTGCC
CAACTCATATCCCTCATCATCAATACCTTCTATTCCAACGAGGAGATTTTCCTTCAGGAGTTGATCTCTAATGCT
TCTGATGCCTTGGACAAGATTTCGTATGAGAGCCTGACAGACCCCTTCAAAGTTGGACAGTGGTAAAGAGCTGAAA
ATTGACATCATCCCCAACCCCTCAGGAACGTACCCTGGCTTTGGTAGACACAGGCATTGGCATGACCAAAGCTGAT
CTCATAAAATAATTTGAGAACCATTGCCAAGTCTGGTACTAAAGCATGCATGGAGGCTCTTCAGGCTGGTGCAGAC
ATCTCCATGATTGGGCAGTTTGGTGTGGCTTTTTCTGCCTACCTGGTGGCAGAGAACTGGTTGTGATCACAA
AGCACAACGATGATGAACAGTATGCTTGGGAGTCTTCTGCTGGAGGTTCCCTTCACTGTGCATGCTGATCATGGTG
AGCCCATTGGCAGGGGTACCAAAGTGATCCTCCATCTTAAAGAAGATCAGACAGAGTACTTAGAAGAGAGGCGGG
TCAAAGAAGTAGTGAGAAGCATTCTCAGTTCATAGGCTATCCCATCACCCCTTTATTTGGAGAAGGAACAAGACA
AGGAAATTAGTGATGATGAGGCAGAAGAAGAGAAAGGTGAGAAAGAAGAGGAAGATAAAGATGACGAAGAAAAGC
CCAAGATCAAAGATGTGGGTTTCAGATGAGGAGGATGACAGCAGTAAGGATAAGAAGAAGAAAACCTAAGAAGATCA
AAGAGAAATACATTGACTAGGAAGAACTAAACAAGACCAAGCCTATTTGGACCAGAAACCATGATGACATCACCC
AAGAGGAGTATGGAGAATTCTATAAGAGCCTCACCAGTGACTGGGAAGACCCTTGGCAGTCAAGCACTTTTCTG
TAGAAGGTGAGTTGGAATTCAGGGCATTGCTATTTCAGTCTCGTGGGCTCCCTTTGACCTTTTGTAGAACAAGA
AGAAAAAGAACACATCAAACGTATGTCCGCCGTGTGTTTCATCATGGACAGCTGTGATGAGTTGATACCAGAGT
ATCTCAATTTTATCCATGGTGTGGTTGACTCTGAGGATCTGCCCTGAACATCTCCCGAGAAATGCTCCAGCAGA
GCAAAATCTTGAAAGTCATTGCGAAAAACATTGTTAAGAAGTGCCTTGAGCTCTTCTCTGAGCTGGCAGAAGACA
AGGAGATTATAAGAAATTCATGAGGCATTTTCTAAAAATCTCAAGCTTGGAATCCACGAAGACTCCACTAACCG
CCACCGCCTGTCTGAGCTGCTGCGCTGTACACCTCCCAGTCTGGAGATGAGATGACATCTCTGTCTAGTATGT
TTCTCACATGAAGGAGACACAGAAGTCCACCTATTACATCACTGGTGAGAGCAAAGAGCAGGTGGCCAACTCTGC
TTTTGTGGAGCGAGTGCAGAAACAGGGCTTCGAGGTGGTATATATGACTGAGCCCATGACGAGTACTGTGTGCA
GCAGCTCAAGGAGTTTGATGGGAAAAGCCTGGTCTCAGTTACCAAGGAGGGTCTGGAGCTACCTGAGGATGAGGA
GGAGAAGAAGAAGATGGAAGAAAGCAAGGAAAAGTTTGAGAACCTCTGCAAGCTCATGAAAGAAATCTTAGATAA
GAAGGTTGAGAAGGTGACAATCTCCAATAGACTTGTGTCTTACCCTGCTGCATTGTGACCAGCACCTACGGCTG
GACAGCCAATATGGAGCAGATCATGAAAGCCCAGGCACTTCGGGACAACCTCCACCATGGGCTATATGATGGCCAA
AAAGCACCTGGAGATCAACCCCGACCACCCCATCATGGAGACGCTGCGGCAGAAGGCTGAGGCCGACAAGAATGA
TAAGGCAGTTAAGGACCTGGTGGTGTCTGCTGTTTGAACCGCCCTGCTATCTTCGGGCTTTTCCCTTGAGGATCC
CCAGACCCACTCCAACCACATCTACCACATGATCAAGCTAGGTCTAGGTACTGATGAAGATGAAGTGGCAGCAGA
GGAACCCAGTGATGCAGTTCCTGATGAGATCCCCCTCTTGAGGGTGTGAGGATGCGTCTCGCATGGAAGAAGT
CGATTAGGAGTTCATAGTTGGAAAACCTTGTGCCCTTGTATAGTGTCCCATGGCTCCCACTGCAGCCTCGAGTGC
CCCTGTCCCACCTGGCTGCTGGTGTCTAGTGTTTTTTCCCTCTCCTGTCTTGTGTTGAAGGCAGGAAACCAAG
GGTGTCAAGCCCCATTCCCTCTCTACTCTTGACAGCAGGATTGGATGTTGTGTATTGTGGTTTATTTTATTTCT
TCATTTTGTCTGAAATTAAAGAATGTAAATAAAGAATATGCCGTTTTTATAC

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FIGURE 1462

MKETQKSTYYITGESKEQVANS AFVERVRKQGFEVVYMT EPIDEYCVQQLKEFDGKSLVSVTK EGLELPEDEEEK
KKMEESKEKFENLCKLMKEILDKKVEKVTISNRLVSSPCCIVTSTYGWTANMEQIMKAQALRDNSTMGYMMAKKH
LEINPDHPIMETLRQKAEADKNDKAVKDLVLLFETALLSSGFSLEDPQTHSNHIYHMIKLGLGTDEDEVA AEPP
SDAVPDEIPPLEGDEDASRMEEVD

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FIGURE 1463

CTCTCAAGTCACTCCAGCACAGCGTTGGTGCTGCCTGGGTATCAGAAAGCAAGCTCACATTGCTCTCCAGTACGT
GTAAGCCTTTTCTTTTCAAGATGCCTGAGGAAGTGCACCATGGAGAGGAGGAGGTGGAGACTTTTGCCTTTCAGG
CAGAAATTGCCCAACTCATATCCCTCATCATCAATACCTTCTATTCCAACGAGGAGATTTTCCTTCAGGAGTTGA
TCTCTAATGCTTCTGATGCCTTGGACAAGATTGCTATGAGAGCCTGACAGACCCTTCAAAGTTGGACAGTGGTA
AAGAGCTGAAAATTGACATCTCCATGATTGGGCAGTTTGGTGTTGGCTTTTTTCTGCCTACCTGGTGGCAGAGAA
ACTGGTTGTGATCACAAAGCACAAACGATGATGAACAGTATGCTTGGGAGTCTTCTGCTGGAGGTTCCCTTCACTGT
GCATGCTGATCATGGTGAGCCCATTGGCAGGGGTACCAAAGTGATCCTCCATCTTAAAGAAGATCAGACAGAGTA
CTTAGAAGAGAGGCGGGTCAAAGAAGTAGTGAAGAAGCATTCTCAGTTCATAGGCTATCCCATCACCCTTTATTT
GGAGAAGGAACAAGACAAGGAAATTAGTGATGATGAGGCAGAAGAAGAGAAAGGTGAGAAAGAAGAGGAAGATAA
AGATGACGAAGAAAAGCCCAAGATC

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FIGURE 1464

GAGCAGCAGAATTTCAACTCCAGTAGACTTGAATATGCCTCTGGGCAAAGAAGCAGAGCTAACGAGGAAAGGGAT
TTAAAGAGTTTTTCTTGGGTGTTTGTCAAACTTTTATTCCCTGTCTGTGTGCAGAGGGGATTCAACTTCAATTTT
TCTGCAGTGGCTCTGGGTCCAGCCCCTTACTTAAAGATCTGGAAAGCATGAAGACTGGGCTTTTTTTTCCTATGTC
TCTTGGGAACTGCAGCTGCAATCCCGACAAATGCAAGATTATTATCTGATCATTCCAAACCAACTGCTGAAACGG
TAGCACCTGACAACACTGCAATCCCCAGTTTAAAGGGCTGAAGCTGAAGAAAATGAAAAAGAAACAGCAGTATCCA
CAGAAGACGATTCCCACCATAAGGCTGAAAAATCATCAGTACTAAAGTCAAAAGAGGAAAGCCATGAACAGTCAG
CAGAACAGGGCAAGAGTTCTAGCCAAGAGCTGGGATTGAAGGATCAAGAGGACAGTATGGTCACTTAAGTGTGA
ATTTGGAGTATGCACCAACTGAAGGTACATTGGACATAAAAGAAGATATGAGTGAGCCTCAGGAGAAAAAACTCT
CAGAGAACACTGATTTTTTGGCTCCTGGTGTTAGTTCCTTACAGATTCTAACCAACAAGAAAGTATCACAAAGA
GAGAGGAAAACCAAGAACAACCTAGAAATTATTCACATCATCAGTTGAACAGGAGCAGTAAACATAGCCAAGGCC
TAAGGGATCAAGGAAACCAAGAGCAGGATCCAAATATTTCCAATGGAGAAGAGGAAGAAGAAAAAGAGCCAGGTG
AAGTTGGTACCCACAATGATAACCAAGAAAGAAAGACAGAATTGCCAGGGAGCATGCTAACAGCAAGCAGGAGG
AAGACAATACCCAATCTGATGATATTTTGGAAAGAGTCTGATCAACCAACTCAAGTAAGCAAGATGCAGGAGGATG
AATTTGATCAGGGTAACCAAGAACAAGATAACTCCAATGCAGAAATGGAAGAGGAAAATGCATCGAACGTCA
ATAAGCACATTCAAGAACTGAATGGCAGAGTCAAGAGGGTAAACTGGCCTAGAAGCTATCAGCAACCACAAAG
AGACAGAAGAAAAGACTGTTTCTGAGGCTCTGCTCATGGAACCTACTGATGATGGTAATACCACGCCCAGAAATC
ATGGAGTTGATGATGATGGCGATGATGATGGCGGACTGATGGCCCCAGGCACAGTGCAAGTGATG
ACTACTTCATCCCAAGCCAGGCCCTTTCTGGAGGCCGAGAGAGCTCAATCCATTGCCTATCACCTCAAAATTGAGG
AGCAAAGAGAAAAAGTACATGAAAATGAAAATATAGGTACCACTGAGCCTGGAGAGCACCAAGAGGCCAAGAAAG
CAGAGAACTCATCAATGAGGAGGAAACGTCAAGTGAAGGCAACATGAGGGTGCATGCTGTGGATTCTTGATGA
GCTTCCAGTGTAAAAGAGGCCACATCTGTAAGGCAGACCAACAGGGAAAACCTCACTGTGTCTGCCAGGATCCAG
TGACTTGTCTCTCAACAAAACCCCTTGATCAAGTTTGTGGCACTGACAATCAGACCTATGCTAGTTTCTGTCTATC
TATTCGCTACTAAATGCAGACTGGAGGGGACCAAAAAGGGGCATCAACTCCAGCTGGATTATTTTGGAGCCTGCA
AATCTATTCTACTTGTACGGACTTTGAAGTGATTCAAGTTTCTCTACGGATGAGAGACTGGCTCAAGAATATCC
TCATGCAGCTTTATGAAGCCAACCTCTGAACACGCTGGTTATCTAAATGAGAAGCAGAGAAATAAAGTCAAGAAAA
TTTACCTGGATGAAAAGAGGCTTTTGGCTGGGGACCATCCCATTGATCTTCTCTTAAGGGACTTTAAGAAAACT
ACCACATGTATGTGTATCCTGTGCACTGGCAGTTTAGTGAACCTTGACCAACACCCTATGGATAGAGTCTTGACAC
ATTCTGAACCTTGCTCCTCTGCGAGCATCTCTGGTGCCCATGGAACACTGCATAACCCGTTTCTTTGAGGAGTGTG
ACCCCAACAAGGATAAGCACATCACCTGAAGGAGTGGGGCCACTGCTTTGGAATTAAAGAAGAGGACATAGATG
AAAATCTCTTGTTTTGAACGAAGATTTTAAAGAACTCAACTTTCCAGCATCCTCCTCTGTTCTAACCACTTCAGA
AATATATGCAGCTGTGATACTTGTAGATTTATATTTAGCAAAATGTTAGCATGTATGACAAGACAATGAGAGTAA
TTGCTTGACAACAACCTATGCACCAGGTATTTAACATTAACCTTTGGAAACAAAAATGTACAATTAAGTAAAGTCA
ACATATGCAAAATACTGTACATTGTGAACAGAAGTTTAATTCATAGTAATTTCACTCTCTGCATTGACTTATGAG
ATAATTAATGATTAACTATTAATGATAAAAAATAATGCATTTGTATTGTTTATAATATCATGTGCACTTCAAGAA
AATGGAATGCTACTCTTTTGTGGTTTACGTGTATTATTTTCAATACTTAATACCCTAATAAAGAGTCCATAAAA
ATCC

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FIGURE 1465

CTTCGCCGCGTGGATGGCCTATTACATCAATCACCTCTCTACACTCCCCCTACCTACGGAGCTCAGCAGGTGAA
ACTGGCGCTCGCCATCTTTGTGATCTGCCAGCTCGGCAACTTCTCCATCCACATGGCCCTGCGGGACCTGCGGCC
CGCTGGGTCCAAGACGCGGAAGATCCCATACCCCACCAAGAACCCTTCACGTGGCTCTTCCTGCTGGTGTCTG
CCCCAACTACACCTACGAGGTGGGGTCCTGGATCGGTTTCGCCATCATGACGCAGTGTCTCCAGTGGCCCTGTT
CTCCCTGGTGGGCTTCACCCAGATGACCATCTGGGCCAAGGGCAAGCACCGCAGCTACCTGAAGGAGTTCCGGGA
CTACCCGCCCCCTGCGCATGCCCATCATCCCTTCCTGCTCTGAGCGCTCACCCCTGCTGAGGCTCAGCCCCTCAA
CCCGGTGGCATTCTGGGGGAGGAGTGGGGCCACAGCTCTCCAGCACCCGGAATAAAGCCCGCCTGCCCCAGTCG
GGA

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FIGURE 1466

GAGGGCGGGCCTGTTTCCGGGAGGCGCGTGGGGCTTGAGGCCGAGAACGGCCCTTGCTGCCACCAACATGGAGAC
TTTGTACCGTGTCCCGTTCTTAGTGCTCGAATGTCCCAACCTGAAGCTGAAGAAGCCGCCCTGGTTGCACATGCC
GTCGGCCATGACTGTGTATGCTCTGGTGGTGGTGTCTTACTTCCTCATCACCGGAGGAATAATTTATGATGTTAT
TGTTGAACCTCCAAGTGTGCGTTCTATGACTGATGAACATGGGCATCAGAGGCCAGTAGCTTTCTTGGCCTACAG
AGTAAATGGACAATATATTATGGAAGGACTTGCATCCAGCTTCCTATTTACAATGGGAGGTTTAGGTTTCATAAT
CCTGGACCGATCGAATGCACCAATATCCCAAACTCAATAGATTCCTTCTTCTGTTTCATTGGATTTCGTCTGTGT
CCTATTGAGTTTTTTCATGGCTAGAGTATTCATGAGAATGAACTGCCGGGCTATCTGATGGGTTAGAGTGCCTT
TGAGAAGAAATCAGTGGATACTGGATTTGCTCCTGTCAATGAAGTTTTAAAGGCTGTACCAATCCTCTAATATGA
AATGTGGAAGAAGTGAAGAGCAGCAGTAAAAGAAATATCTAGTGAAAAACAGGAAGCGTATTGAAGCTTGGAC
TAGAATTTCTTCTTGGTATTAAAGAGACAAGTTTATCACAGAATTTTTTTCCTGCTGGCCTATTGCTATACCAA
TGATGTTGAGTGGCATTTCCTTTTAGTTTTTCATTAAAAATATATCCATATCTACAACTATAATATCAAATAAA
GTGATTATTTTTTACAACCCTCTTAACATTTTTTGGAGATGACATTTCTGATTTTCAGAAATTAACATAAAATCC
AGAAGCAAGATTCCGTAAGCTGAGAACTCTGGACAGTTGATCAGCTTTACCTATGGTGCTTTGCCTTTAACTAGA
GTGTGTGATGGTAGATTATTTTCAATATGTATGTAAAACTGTTTCCTGAACAATAAGATGTATGAACGGAGCAGA
AATAAATACTTTTTCTAATTGCAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1467

METLYRVPFLVLECPNLKLLKKPPWLHMPSAMTVYALVVVSFYFLITGGIIYDVIVEPPSVGSMTDEHGHQRPVAF
AYRVNGQYIMEGLASSFLFTMGGLGFIIIDRSNAPNIPKLNRFLLFIGFVCVLLSFFMARVFMRMKLPGYLMG

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FIGURE 1468

ATGCCCCAACTCTCCGGAGGAGGTGGCGGGCGGGGGGGACCCGGAACCTCTGCGCCACGGACGAGATGATCCCC
TTCAAGGACGAGGGCGATCCTCAGAAGGAAAAGATCTTCGCCGAGATCAGTCATCCCGAAGAGGAAGGCGATTTA
GCTGACATCAAGTCTTCCTTGGTGAACGAGTCTGAAATCATCCCGGCCAGCAACGGACACGAGGTGGCCAGACAA
GCACAAACCTCTCAGGAGCCCTACCACGACAAGGCCAGAGAACACCCCGATGACGGAAAGCATCCAGATGGAGGC
CTCTACAACAAGGGACCCCTCCTACTCGAGTTATTCCGGGTACATAATGATGCCAAATATGAATAACGACCCATAC
ATGTCAAATGGATCTCTTTCTCCACCCATCCCGAGAACATCAAATAAAGTGCCCGTGGTGCAGCCATCCCATGCG
GTCCATCCTCTCACCCCCCTCATCACTTACAGTGACGAGCACTTTTCTCCAGGATCACACCCGTCACACATCCCA
TCAGATGTCAACTCCAAACAAGGCATGTCCAGACATCCTCCAGCTCCTGATATCCCTACTTTTTATCCCTTGCT
CCGGGTGGTGTTGGACAGATCACCCACCTCTTGGCTGGCAAGGTCAGCCTGTATATCCCATCACGGGTGGATTC
AGGCAACCCTACCCATCCTCACTGTCACTGACACTTCCATGTCCAGGTTTTCCCATCATATGATTCCCGGTCCT
CCTGGTCCCCACAACTGGCATCCCTCATCCAGCTATTGTAACACCTCAGGTCAAACAGGAACATCCCCACACT
GACAGTGACCTAATGCACGTGAAGCCTCAGCATGAACAGAGAAAGGAGCAGGAGCCAAAAGACCTCACATTAAG
AAGCCTCTGAATGCTTTTATGTTATACATGAAAGAAATGAGAGCGAATGTCGTTGCTGAGTGTACTCTAAAAGAA
AGTGCAGCTATCAACCAGATTCTTGGCAGAAGGTGGCATGCCCTCTCCCGTGAAGAGCAGGCTAAATATTATGAA
TTAGCACGGAAAGAAAGACAGCTACATATGCAGCTTTATCCAGGCTGGTCTGCAAGAGACAATTATGGTAAGAAA
AAGAAGAGGAAGAGAGAGAAACTACAGGAACTGTCATCAGGTACAGGTCCAAGAATGACAGCTGCCTACATCTGA

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FIGURE 1469

TGGCCACAACACCGACACAGTAGCATTGTGTCAGTTTCTGGTTGGAATGGTGACAACACGCTGGAGCCAAGTGC
TAACATGCCTTGGTTCAAGGGATGGAAAGTCACCCGTAAGGATGGCAATGCCAGTGGAAACCACGCTGCTTGAGGC
TCTTGACTGCATCCTACCACCAACTCGTCCAACGACAAGCCCTTGTGCCTGCCTCTCCAGGATGTCTACAAAAT
TGGTGGTATTGGTACTGTTCCCTGTTGGCTGAGTGGAGACTGGTGTCTCAAACCTGGTATGGTGGTCACCTTTGC
TCCAGTCAACGTTGCAACAGAAGTAAAATCTGTTGAAATGCACCATGAAGCAGAAGGCTAAATAAATATTATCCC
TACTACCTGCCACCCCACTGTTAATCAGTGGTGGGAAGAATGGTCTCAGAACTGTTTGTTTCAATTGGCCATTGAA
GTTTAGTAGTAAAAGACTGGTTAATGATAACAATGCATCATAAAACCTTCAGAAGGAAAGGAGAATGTTTTGTGG
ACCACTTGGTTTTCTTTCTTTGCATGTGGCAGTTTTAAGTTATTAGTTTTTAAAATCAGTACTTTTTACTGGAA
ACAACTTGACCAAAAATTTGTCACAGAATTTTGAGACCCATTAAAAAAGTTAATGAAAAA

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FIGURE 1470

AAGCCAGAACGAGAAAGGAAAAGACTCATATCAACACTGTGATCATCGGACACGTAGATTCGGGCAAGTCCACCA
CTACTGGCCATCTGATCTACAAATGCGGTGGCGTCGACAAAAGAACCATCGAAAAATTTGAGAAGGAGGCTGCTG
AGATGGGAAAGTGCTCCTTCAAGTATGCCTGGGTCTTGGATAAACTGAAAGCTGAGCGTGAACATGGTATCACCA
TTGATATCTCTTTGTGGAAATTTGAGACCAGCAAGTACTATGGGACAATGTGGGCTTCAATGTCAAGAATGTGTC
TGTC AAGGATGTTTCGTCGTGGCAACGTTGCTGGTGACAGCAAAAAGGACCCACCAATGGAAGCAGCTGGCTTCAC
TGCTCAGGTGATTATCCTGAACCATCCAGGCCAAATAAGTGCTGGCTATGCCCCGTATTGGATTGCCACACGGC
TCACATTGCATGCAAGTTTGCTGAGCTGAAGGAAAAGACTGATCGCCATTCTGGTAAAAAGCTGGAAGATGGCCC
TAAATTCTTGAAGTCTGGTGATGCTGCCATTGTTGATATGGTTCCTGGCAAGCCCGTGTATGTTGAGAGCTTCTC
AGACTATCCACCTTTGGGTCGCTTTGCTGTTTCATGATATCAGACAGACAGTTGCGGTGGGTGTCATCAAAGCAGT
GGACAAGAAGGCTGCTGGAGCTGGCAAGGTCACCAAGTCTGCCCAGAAAGCTCAGAAGGCTAAATAAATATTATC
CCTA

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FIGURE 1471

AAATTGTTAAGGAAGTCAGCACTTACATTAAGAAAATTGGCCACAACACCGACACAGTAGCATTGTGCCAGTTT
CTGGTTGGAATGGTGACAACACGCTGGAGCCAAGTGCTAACATGCCTTGGTTCAAGGGATGGAAAGTCACCCGTA
AGGATGGCAATGCCAGTGAACACGCTGCTTGAGGCTCTTGACTGCATCCTACCACCAACTCGTCCAAGTACA
AGCCCTTGTGCCTGCCTCTCCAGGATGTCTACAAAATTGGTGGTATTGGTACTGTTCTGTTGGCTGAGTGGAGA
CTGGTGTTCTCAAACCTGGTATGGTGGTCACCTTTGCTCCAGTCAACGTTGCAACAGAAGTAAAATCTGTTGAAA
TGCACCATGAAGCTTTGAGTGAAGTTCTTCCTGGGGACAATGTGGGCTTCAATGTCAAGAATGTGTCTGTCAAGG
ATGTTTCGTTCGTGGCAACGTTGCTGGTGACAGCAAAAAGGACCCACCAATGGAAGCAGCTGGCTTCACTGCTCAGG
TGATTATCCTGAACCATCCAGGCCAAATAAGTGCTGGCTATGCCCCTGTATTGGATTGCCACACGGCTCACATTG
CATGCAAGTTTGCTGAGCTGAAGGAAAAGACTGATCGCCATTCTGGTAAAAAGCTGGAAGATGGCCCTAAATTCT
TCTTTGGGTCGCTTTGCTGTTTCATGATATCAGACAGACAGTTGCGGTGGG

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FIGURE 1472

GTGAACATGGTATCACCATTGATATCTCTTTGTGGAAATTTGAGACCAGCAAGTACTATGTGACTATCATTGATG
CCCCAGGACACAGAGACCTCATCAAAAACATGATTACAGGGACATCTCAGGCTGACTGTGCTGTCTTGATTGTTG
CTGCTGGTTTTGGTGAATTTGAAGCTGGTATCTCCAAGAATGGGCAGACCCGAGAGCACGCCCTTCTGGCTTACA
CACTGGGTGTGAAACAACATAATTGTTGGTGTAAACAAATGGATTCCACTGAGCCACCCTACAGCCATAAGAGAT
ATGAGGAAATTGTTAAGGAAGTCAGCACTTACATTAAGAAAATTGGCCACAACACCGACACAGTAGCATTGTTGC
CAGTTTCTGGTTGGAATGGTGACAACACGCTGGAGCCAAGTGCTAACATGCCTTGGTTCAAGGGATGGAAAGTCA
CCCGTAAGGATGGCAATGCCAGTGGAACCAGCCTGCCTCTCCAGGATGTCTACAAAATTGGTGGTATTGGTACTG
TTCCTGTTGGCTGAGTGGAGACTGGTGTCTCAAACCTGGTATGGTGGTCACCTTTGCTCCAGTCAACGTTGCAA
CAGAAGTAAATCTGTTGAAATGCACCATGAAGCTTTGAGTGAAGTTCTTCCTGGGGACAATGTGGGCTTCAATG
TCAAGAATGTGTCTGTCAAGGATGTTCTGTCGTGGCAACGTTGCTGGTGACAGCAAAAAGGACCCACCAATGGAAG
CAGCTGGCTTCACTGCTCAGGTGATTATCCTGAACCATCCAGGCCAAATAA

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FIGURE 1473

GAAAAATTTGAGAAGGAGGCTGCTGAGATGGGAAAGTGCTCCTTCAAGTATGCCTGGGTCTTGGATAAACTGAAA
GCTGAGCGTGAACATGGTATCACCATTGATATCTCTTTGTGGAAATTTGAGACCAGCAAGTACTATGTGACTATC
ATTGATGCCCCAGGACACAGAGACCTCATCAAAAACATGATTACAGGGACATCTCAGGCTGACTGTGCTGTCTTG
ATTGTTGCTGCTGGTTTTTGGTGAATTTGAAGCTGGTATCTCCAAGAATGGGCAGACCCGAGAGCACGCCCTTCTG
GCTTACACACTGGGTGTGAAACAACATAATTGTTGGTGTAAACAAAATGGATTCCACTGAGCCACCCTACAGCCAT
AAGAGATATGAGGAAATTGTTAAGGAAGTCAGCACTTACATTAAGAAAATTGGCCACAACACCGACACAGTAGCA
TTTGTGCCAGTTTCTGGTTGGAATGGTGACAACACGCTGGAGCCAAGTGCTAACATGCCTTGGTTCAAGGGATGG
AAAGTCACCCGTAAGGATGGCAATGCCAGTGAACACGCTGCTTGAGGCTCTTGACTGCATCCTACCACCAACT
CGTCCAACCTGACAAGCCCTTGTGCCTGCCTCTCCAGGATGTCTACAAAATTGGTGGTATTGGTACTGTTCTGT
GGCTGAGTGGAGACTGGTGTCTCAAACCTGGTATGGTGGTCACCTTTGCTCCAGTCAACGTTGCAACAGAAGTA
AAATCTGTGTCAAGGATGTTTCGTTCGTGGCAACGTTGCTGGTGACAGCAAAAAGGACCCACCAATGGAAGCAGCTG
GCTTCACTGCTCAGGTGATTATCCTG

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FIGURE 1474A

GGTGGTTCGCAGAAGCAGCAGTGAAGAGAAGCTACTGTGTTTGGTGCGGGAGCGAGCTGGCCACACCTGTGAGGC
TGCAGTGATTGTGATTCTCATCCTGGTGTGGGAAGGAATCCCGCTGTCTCTGGCTGACAACTCTACTCGGAGCT
TACCGAGACGCTGAGGAAATACGGCACGCTCACCAATCGCCGGTGTGCCTTGAATGAAGAGAGAACTTGCGCCTG
TCAGGGGCTGGATCCAGAAACCTGTGGTGCCTCCTTCTCTTTTGGTTGTTTCATGGAGCATGTACTACAATGGATG
TAAGTTTGCCAGAAGCAAGATCCCAAGGAAGTTTAAGCTGCTTGGGGATGACCCAAAAGAGGAAGAGAACTGGA
GTCTCATTGCAAAACCTGTCCACTCTTATGGCACCAACATATAAGAACTTGACCTGATGCATATAATAATCA
GATTGAATATGAACACAGAGCACCAGAGTGCCGTCTGGGTCTGAAGGAAGGCCGTCCATTCTCAGGGGTCACTGC
ATGTTTGGACTTCTGTGCTCATGCCCACAGAGACTTGACAAACATGCAGAATGGCAGCACATTGGTATGCACTCT
CACTAGAGAAGACAATCGAGAATTTGGAGGAAAACCTGAGGATGAGCAGCTTCACGTTCTGCCTTTATACAAAGT
CTCTGACGTGGATGAGTTGGGAGTGTGGAAGCTCAGGAGGAGAAAAACGGAGTGGTGCCATTTCAGGTACTGAG
TTCTTTTCGGCGAAAAGTCAAGGATGTTAGCAGAGCCAGTCAAGACTTGCCGACAAAGGAACTAGAAGCCAAGAA
AGCTGCAGCTGAAAAGCTTTCCTCCCTGGAGAACAGCTCAAATAAAAAATGAAAAGGAAAAGTCAGCCCCATCACG
TACAAAACAACTGAAAACGCAAGCCAGGCTAAACAGTTGGCAGAACTTTTGCGACTTTCAGGACCAGTCATGCA
GCAGTCCCAGCAGCCCCAGCCTCTACAGAAGCAGCCACCACAGCCCCAGCAGCAGCAGAGACCCAGCAGCAGCA
GCCACATCACCTCAGACAGAGTCTGTCAACTCTTATTCTGCTTCTGGATCCACCAATCCATACATGAGACGGCC
CAATCCAGTTAGTCCTTATCCAACTCTTCACACACTTCAGATATCTATGGAAGCACCAGCCCTATGAACCTCTA
TTCCACCTCATCTCAAGCTGCAGGTTTCATATTTGAATTCTTCTAATCCCATGAACCTTACCCTGGGCTTTTGAA
TCAGAATACCCAATATCCATCATATCAATGCAATGGAACCTATCAGTGGACAACCTGCTCCCCATATCTGGGTTC
CTATTCTCCCCAGTCTCAGCCGATGGATCTGTATAGGTATCCAAGCCAAGACCTCTGTCTAAGCTCAGTCTACC
ACCCATCCATACACTTTACCAGCCAAGGTTTGGAAATAGCCAGAGTTTACATCTAAATACTTAGGTTATGGAAA
CCAAAATATGCAGGGAGATGGTTTCAGCAGTTGTACCATTAGACCAAATGTACATCATGTAGGGAAATTGCCTCC
TTATCCCACTCATGAGATGGATGGCCACTTCATGGGAGCCACCTCTAGATTACCACCAATCTGAGCAATCCAAA
CATGGACTATAAAAAATGGTGAACATCATTACCTTCTCACAATAATCCATAACTACAGTGCAGCTCCGGGCATGTT
CAACAGCTCTCTTCATGCCCTGCATCTCCAAAACAAGGAGAATGACATGCTTTCCACACAGCTAATGGGTTATC
AAAGATGCTTCCAGCTCTTAACCATGATAGAAGTGTGTGTTCCAAGGAGGCTTACACAAATTAAGTGATGCTAA
TGGTCAGGAAAAGCAGCCATTGGCACTAGTCCAGGGTGTGGCTTCTGGTGCAGAGGACAACGATGAGGTCTGGTC
AGACAGCGAGCAGAGCTTCTGGATCCTGACATTGGGGAGTGGCCGTGGCTCCAACCTCATGGGTCAATTCTCAT
TGAGTGTGCAAAGCGTGAGCTGCATGCCACAACCCCTTTAAAGAATCCCAATAGGAATCACCCACCAGGATCTC
CCTCGTCTTTTACCAGCATAAGAGCATGAATGAGCCAAAACATGGCTTGGCTCTTTGGGAAGCCAAAATGGCTGA
AAAAGCCCGTGAGAAAGAGGAAGAGTGTGAAAAGTATGGCCAGACTATGTGCCTCAGAAATCCCATGGCAAAAA
AGTGAAACGGGAGCCTGCTGAGCCACATGAACTTCAGAGCCCACTTACCTGCGTTTCATCAAGTCTCTTGCCGA
AAGGACCATGTCCGTGACCACAGACTCCACAGTAACATCTCCATATGCCTTCACTCGGGTCACAGGGCCTTA
CAACAGATATATATGATATCACCCCTTTTGTGGTTACCTCACTTGAAGAGACCACAACCAACCTGTCAGTAGT
ATAGTTCTCATGACGTGGGCAGTGGGGAAGGTCACAGTATTTCATGACAAATGTGGTGGGAAAAACCTCAGCTCA
CCAGCAACAAAAGAGGTTATCTTACCATAGCACTTAATTTTCACTGGCTCCCAAGTGGTCACAGATGGCATCTAG
GAAAAGACCAAAGCAATCTATGCAAAAAGAAGGTGGGGAAGAAAGTGTTCCGCAATTTACATTTTAAACACTGG
TTCTATTATTGGACGAGATGATATGTAAATGTGATCCCCCCCCCGCTTACAACCTTACACATCTGTGACCACT
TTTAATAATATCAAGTTTGCATAGTCATGGAACACAAATCAAACAAGTACTGTAGTATTACAGTGACAGGAATCT
TAAAATACCATCTGGTGTGAATATATGATGTACTGAAATACTGGAATTATGGCTTTTGAAGTGCAGTTTTTAC
TGTAATCTTAACCTTTTATTTATCAAAATAGCTACAGGAAACATGAATAGCAGGAAAACACTGAATTTGTTTGGAT
GTTCTAAGAAATGGTGCTAAGAAAATGGTGTCTTTAATAGCTAAAAATTTAATGCCTTTATATCATCAAGATGCT
ATCAGTGTACTCCAGTGCCCTTGAATAATAGGGGTACCTTTTCATTCAAGTTTTATCATAATTACCTATTCTTA
CACAAGCTTAGTTTTTAAATGTGGACATTTTAAAGGCCCTCTGGATTTTGTCTCATCCAGTGAAGTCCTTGTAGGA
CAATAAACGTATATATGTACATATATACACAAACATGTATATGTGCACACACATGTATATGTATAAATATTTTAA
ATGGTGTTTTAGAAGCACTTTGTCTACCTAAGCTTTGACAACCTGAACAATGCTAAGGTACTGAGATGTTTTAAA
AACAAGTTTACTTTTCATTTTAGAAATGCAAAGTTGATTTTTTAAAGGAAACAAAGAAAGCTTTTTAAATATTTTTG
CTTTTAGCCATGCATCTGCTGATGAGCAATTGTGTCCATTTTAAACACAGCCAGTTAAATCCACCATGGGGCTTA
CTGGATTCAAGGGAATACGTTAGTCCACAAAACATGTTTTCTGGTGTCTCATCTCACATGCTATACTGTAAAACAG

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FIGURE 1474B

TTTTATACAAAATTGTATGACAAGTTCATTGCTCAAAAATGTACAGTTTTTAAGAATTTTCTATTAACTGCAGGTA
ATAATTAGCTGCATGCTGCAGACTCAACAAAGCTAGTTCCTGAAGCCTATGCTATTTTATGGATCATAGGCTCT
TCAGAGAAGCTGAATGGCAGTCTGCCTTTGTGTTGATAATTATGTACATTGTGACGTTGTCATTTCTTAGCTTAAG
TGTCCTCTTTTAAACAAGAGGATTGAGCAGACTGATGCCTGCATAAGATGAATAAACAGGGTTAGTTCCATGTGAAT
CTGTCAGTTAAAAAGAAACAAAAACAGGCAGCTGGTTTGCTGTGGTGGTTTTAAATCATTAAATTTGTATAAAGAA
GTGAAAGAGTTGTATAGTAAATTAAATTGTAAACAAAACCTTTTTTAATGCAATGCTTTAGTATTTTAGTACTGTA
AAAAAATTAAATATATACATATATATATATATATATATATATATATATATAGAGTTTGAAGCAGAATTCACATCAT
GATGGTGCTACTCAGCCTGCTACAAATATATCATAATGTGAGCTAAGAATTCATTAAATGTTTGAGTGATGTTCC
TACTTGTCAATACCTCAACACTAGTTTGGCAATAGGATATTGAACTGAGAGTGAAAGCATTGTGTACCATCATT
TTTTTCCAAGTCCTTTTTTTTATTGTTAAAAAAAAGCATAACCTTTTTTCAATACTTGATTTCTTAGCAAGTAT
AACTTGAACCTCAACCTTTTTGTTCTAAAAATTCAGGGATATTTTCAAGCTCATGCTCTCCCTATGCCAACATGTCA
CCTGTGTTTATGTAAATTTGTTGTAGGTTAATAAATATATTCTTTGTGAGGGATTTAACCCTTTTTATTTTGAATC
CCTTCTATTTTACTTGTACATGTGCTGATGTAACTAAAACTAATTTTGTAATCTGTTGGCTCTTTTTATTGTAA
AGAAAAGCATTTTAAAAGTTTGAGGAATCTTTTGACTGTTTCAAGCAGGAAAAAAAATTACATGAAAATAGAAT
GCACTGAGTTGATAAAGGGAAAAATTGTAAGGCAGGAGTTTGGCAAGTGGCTGTTGGCCAGAGACTTACTTGTA
CTCTCTAAATGAAGTTTTTTTGATCCTGTAATCACTGAAGGTACATACTCCATGTGGACTTCCCTTAAACAGGCA
AACACCTACAGGTATGGTGTGCAACAGATTGTACAATTACATTTTGGCCTAAATACATTTTGTCTTACTAGTATT
TAAAATAAATCTTAATCAGAGGAGGCCTTTGGGTTTTATTGGTCAAATCTTTGTAAGCTGGCTTTTGTCTTTTT
AAAAAATTTCTTGAATTTGTGGTTGTGTCCAATTTGCAAACATTTCCAAAATGTTTGCTTTGCTTACAAACCAC
ATGATTTTAAATGTTTTTTGTATACCATAATATCTAGCCCCAAACATTTGATTACTACATGTGCATTGGTGATTTT
GATCATCCATTCTTAATATTTGATTTCTGTGTCACTACTGTCATTTGTTAAACTGCTGGCCAACAAGAACAGGA
AGTATAGTTTGGGGGGTTGGGGAGAGTTTACATAAGGAAGAGAAGAAATTGAGTGGCATATTGTAAATATCAGAT
CTATAATTGTAATATAAAACCTGCCTCAGTTAGAATGAATGGAAAGCAGATCTACAATTTGCTAATATAGGAAT
ATCAGGTTGACTATATAGCCATACTTGAAAATGCTTCTGAGTGGTGTCAACTTTACTTGAATGAATTTTTCATCT
TGATTGACGCACAGTGATGTACAGTTCACCTTCTGAAGCTAGTGGTTAACTTGTGTAGGAACTTTTGAGTTTGA
CACTAAGATAACTTCTGTGTGCATTTTCTATGCTTTTTTAAAACTAGTTTCATTTTCAATTTTTCATGAGATGTTT
GGTTTATAAGATCTGAGGATGGTTATAAATACTGTAAGTATTGTAATGTTATGAATGCAGGTTATTTGAAAGCTG
TTTATTATTATATCATTCCTGATAATGCTATGTGAGTGTTTTTAATAAAATTTATATTTATTTAATGCACTCT

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FIGURE 1475

MAPTYKKLAPDAYNNQIEYEHRAPCERLGLKEGRPFSGVTACLDCAHAHRDLHNMQNGSTLVCTLTREDNREFG
GKPEDEQLHVLPLYKVSDVDEFGSVEAQEEKKRSGAIQVLSSFRRKVRMLAEPVKTCRQRKLEAKKAAAEKLSSL
ENSSNKNEKEKSAPSRKTQTENASQAKQLAELLRLSGPVMQOSQOPQPLQKQPPQPQQQQRPPQQQPPHHPQTESV
NSYSASGSTNPYMRRPNPVSPYPNSSHTSDIYGSTSPMNFYSTSSQAAGSYLNSSNPMNPYPGLLNQNTQYPSYQ
CNGNLSVDNCSPYLGSYSPQSQPMDLRYRPSQDPLSKLSLPP IHTLYQPRFGNSQSFTSKYLGYGNQNMQGDGFS
SCTIRPNVHHVGKLPPYP THEMDGHFMGATSRLPPNLSNPNMDYKNGEHHSPSHI IHNYSAAPGMFNSSLHALHL
QNKENDMLSHTANGLSKMLPALNHDRTACVQGGLHKLS DANGQEKQPLALVQGVASGAEDNDEVWSDSEQSFLDP
DIGGVAVAPTHGSILIECAKRELHATTPLKNPNRNHPTRISLVFYQHKS MNPKHGLALWEAKMAEKAREKEEEC
EKYGPDYVPQKSHGKKVKREPAEPHETSEPTYLRFIKSLAERTMSVTTDSTVTTSPYAFTRVTGPYNRYI

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FIGURE 1476

AGGCACAGGCAGCCTGCATACACTCCTTTTCCTGGTGTCAACATTATTTAAAAGCATGGGAAATAGTAATGAGAC
AGTGTCTTCTTCATTAGAACCTTAGGAGTCTACTAGATTTCTTCATCTCTATTTGTTGTTATTAGTAGCCAAACT
GTGCAAAAAACACGGTCTTGAGAAATGACAGCACAGTATCTTAGAGGGAAAGGAAATGTAGGATGCCAGTGTGGG
GACAAATTTCTGATTGCCAGTGATTGTTGTGAGCATAACAATAATTTTCATGAACATTAAAGCCTCTATTGAGGGC
AGCTGCAGTTGTAAAGGAAAAAAATGGTCCTGAACATTTAAACTACACTGGTGTACATCATAATCAAACAAAG
TAAACAGAAAAAATTTAAACTTTGCTAAAAAAGCAGAAGCACTTGATCTTTAGGAAGGCACGCAGTTGC
TTATTATGAATCATTTCTAGAGTCCGATGCATTTCAAAGCCGGTTACAGTCATTACGAAGCACACCCCTTGAG
GTAAGTGTATCATCACCTTTGGTTTATAAATAAAAAAGCTGAGACGCCGAGCGATTAAAGTCACTCGCCTAAGGAG
AATGAGTCAACGTCAAGAGTCATAGTTGACCCGGCTAAAGACTCCAGACCATCAGTCCAGGGCTTAGTCAGCGG
GGCCCGGAGTGGCTTCCCTGGCTGGCATCTGGACTTAGGCTATTTCCGTGCACGTAAAGCGGAATATTGGAACG
GTTGCACAGAACTTCCAAATAATTTTACCGCCACGCAAGATTTAGCCCTGAGGTCTTAATCTCAGGATTTGGGA
CAGTAAAAGCTGTCTCCCTCCCCCTCGTCCAGCCGGTGGCAAGCGGGTACTGCGGGCGGTTCCGTCCGTCCCCT
TTCGCAGAAATGGCAACGAATGACCACCAGCATTAGCTGAGCCAGGGGACGTGGGAGGGTTGATTGCCTAAACGA
CTCTGCATCGCCGCTCTTTTGAACATAAGAGAAAAATGGTGGGAGATCAAAGAAAACTAAATAAACACACAGG
CAACTTGTCTGGGACCTCAACTAAGCAATGAAGCCTTATGTGTGTGCTGAGCCTGCAGTTCCCAACCTTCCG
GGGAAGATGGGAGGACAGGGCGACAAAGGGCACAGTAGGCTTGCTGGCAGTAAGTGTGACCGCAGCTATCCAGG
CGGAAGAGCAGAGGACTGAAACCACCCTCCAGCAAGCGAGTGTCCGCCGCTTGAGAACCGCGCACCTACCCAT
CGGCCACGTGACCAGTCTTTTTAAAAAATTTCTTTACCTTAAAAAAGGTGGGGGAGAG
ACTCCACTTCCCAGAAGCCTCTCGTTACTCACGCAGCCGAGTCTTGCAGGTTGCCGCCAGGGCCAAACGGACA
TATCCGTACGTGGCCAGAAGCTGGCCAATCCGGTTGAATCTCATTTTTTCTCTTACCCCCCTTCTGGAGC
GGTTGTGCGATCAGATCGATCTAAGATGGCGACTGTGCAACCGGAAACCACCCTACTCCTAATCCCCGACTAC
AGAAGAGGAGAAAACGGAATCTAATCAGGAGGTTGCTAACCAGAACTATATTAAACATCCCTACAGAACAG
ATGGGCACTCTGGTTTTTAAAAATGATAAAAGCAAACTTGGCAAGCAAACTGCGGCTGATCTCCAAGTTTGA
TACTGTTGAAGACTTTTGGGCTCTGTACAACCATATCCAGTTGTCTAGTAATTTAATGCCTGGCTGTGACTACTC
ACTTTTTAAGGATGGTATTGAGCCTATGTGGGAAGATGAGAAAAACAAACGGGGAGGACGATGGCTAATTACATT
GAACAAAACAGCAGAGACGAAGTGACCTCGATCGCTTTTGGCTAGAGACACTTCTGTGCCTTATTGGAGAATCTTT
TGATGACTACAGTGATGATGTATGTGGCGCTGTTGTTAATGTTAGAGCTAAAGGTGATAAGATAGCAATATGGAC
TACTGAATGTGAAAACAGAGAAGCTGTTACACATATAGGGAGGGTATACAAGGAAAGGTTAGGACTTCCCTCCAAA
GATAGTGATTGGTTATCAGTCCCACGCAGACACAGCTACTAAGAGCGGCTCCACCCTAAATAAGTTTGTGT
TTAAGAAGACACCTTCTGAGTATTCTCATAGGAGACTGCGTCAAGCAATCGAGATTTGGGAGCTGAACCAAGCC
TCTTCAAAAAGCAGAGTGGACTGCATTTAAATTTGATTTCCATCTTAATGTTACTCAGATATAAGAGAAGTCTCA
TTGCGCTTTGTCTTGTACTTCTGTGTTTCAATTTTTTTTTTTTTTTTGGCTAGAGTTTCCACTATCCCAATCAAAG
AATTACAGTACACATCCCAGAAATCCATAAATGTGTTTCTGGCCACTCTGTAATAGTTTCAAGTAGAATTACCATT
AATTACATACAGATTTTACCTATCCACAATAGTCAGAAAACAACTTGGCATTCTTATACCTTTACAGGAAAAAAA
TTCTGTTGTTCCATTTTATGCAGAAGCATATTTGCTGGTTTGAAGATTATGATGCATACAGTTTCTAGCAAT
TTTCTTTGTTTCTTTTACAGCATTGTCTTTGCTGTACTCTTGTGATGGCTGCTAGATTTTAAATTTATTTGTTT
CCCTACTTGATAATATTAGTGATTCTGATTTTCACTTTTGTGTTTTGCTTTTGTGTTTTTCTCATGTAACA
TTGGTGAAGGATCCAGGAATATGACACAAAGGTGGAATAAACATTAAATTTGTGCTTCTTTGGTAATTTTTTT
GTTTTTTGTAACATAAAAGCTTTGCTACAAATTTATGCATTTTCAATCAAATCAGTGATCTATGTTTGTGTGATTT
CCTAAACATAATTGTGGATTATAAAAAATGTAACATCATAATTACATTCTAAGTAGAATTAGTATGTCTGTTTT
TGTATCTTTATGCTGTATTTTAAACATTTGTATTACTTAGGTTATTTTGTGTTTTGTTTAAATGGCTCAAGTAGA
AAAGCAGTCCCATTATATTAAGACAGTGTACAAAAGTAAATAAAATGTGTACAGTGAATTGTCTTTTAGACA
ACTAGATTTGTCTTTTATTTCTCCATCTTTATAGAAGGAATTTGTACTTCTTATTGCAAGGCAGTCTCTATATT
ATGTCTTCTTTTGTGGTGTCTTCCATGTGAACAGCATAAGTTTGGAGCACTAGTTTGATTATTATGTTTATTACA
ATTTTAAATAAATTGAATAGGTAGTATCATATATATGGA

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FIGURE 1477

AGCGGCACGCACACAGCTCGAGCACCGCCCTTCCGGTTGGAGCCATTGCAAGCCCCCCCCACGCCCCGCCCCC
TCGCTAGGCGCTCGCCACGCCCATGCCTCCGTCGCTGCGCGGCCACCCCGGATGTCAGCCCCCGCGCCGACCA
GAATCCGTGAACATGGCGAACGAGGTTATCAAGTGCAAGGCTGCAGTTGCTTGGGAGGCTGGAAAGCCTCTCTCC
ATAGAGGAGATAGAGGTGGCACCCCCAAAGGCTCATGAAGTTCGAATCAAGATCATTGCCACTGCGGTTTGCCAC
ACCGATGCCTATACCCTGAGTGGAGCTGATCCTGAGGGTTGTTTTCCAGTGATCTTGGGACATGAAGGTGCTGGA
ATTGTGGAAAGTGTTGGTGAGGGAGTTACTAAGCTGAAGGCGGGTGACACTGTCATCCCACCTTTACATCCCACAG
TGTGGAGAAATGCAAATTTTGTCTAAATCCTAAACTAACCTTTGCCAGAAGATAAGAGTCACTCAAGGGAAAGGA
TTAATGCCAGATGGTACCAGCAGATTTACTTGCAAAGGAAAGACAATTTTGCATTACATGGGAACCAGCACATTT
TCTGAATACACAGTTGTGGCTGATATCTCTGTTGCTAAAATAGATCCTTTAGCACCTTTGGATAAAGTCTGCCTT
CTAGGTTGTGGCATTTC AACCGGTTATGGTGCTGCTGTGAACACTGCCAAGTTGGAGCCTGGCTCTGTTTGTGCC
GTCTTTGGTCTGGGAGGAGTCGGATTGGCAGTTATCATGGGCTGTAAAGTGGCTGGTGCTTCCCGGATCATTGGT
GTGGACATCAATAAAGATAAATTTGCAAGGGCCAAAGAGTTTGGAGCCACTGAATGTATTAACCTCAGGATTTT
AGTAAACCCATCCAGGAAGTGCTCATTGAGATGACCGATGGAGGAGTGGACTATTCCTTTGAATGTATTGGTAAT
GTGAAGGTCATGAGAGCAGCACTTGAGGCATGTCACAAGGGCTGGGGCGTCAGCGTCGTGGTTGGAGTAGCTGCT
TCAGGTGAAGAAATTGCCACTCGTCCATTCCAGCTGGTAACAGGTCGCACATGGAAAGGCCTGCCTTTGGAGGA
TGGAAGAGTGTAGAAAGTGTCCCAAAGTTGGTGTCTGAATATATGTCCAAAAGATAAAAAGTTGATGAATTTGTG
ACTCACAATCTGTCTTTTGTATGAAATCAACAAAGCCTTTGAACTGATGCATTCTGGAAAGAGCATTGCAACTGTT
GTAAAGATTTAATTCAAAAAGAGAAAAATAATGTCCATCCTGTCTGATGTGATAGGAGCAGCTTAACAGGCAGGG
AGAAGCGCCTCCAACCTCACAGCCTCGTAGAGCTTCACAGCTACTCCAGAAAATAGGGTTATGTGTGTCATTCAT
GAATCTCTATAATCAAGGACAAGGATAATTCAGTCATGAACCTGTTTTCTGGATGCTCCTCCACATAAATAATTG
CTAGTTTATTAAGGAATATTTTAACATAATAAAAAGTAATTTCTACATTTGTGTGGAAATTGTCTTGTTTTATGCT
GTCATCATTGTACGGTTTGTCTGCCATTATCTTCATTCTGCAAGGGAAAGGGAAAGGAAGCAGGGCAGTGGTG
GGTGTCTGAAACCTCAGAAACATAACGTTGAACCTTTAAGGGTCTCAGTCCCGTTGATTAAAGAACAGATCCTA
GCCATCAGTGACAAAGTTAATCAGGACCCAAGTCTGCTTCTGTGATATTATCTTGAAGGGAGGTACTGTGCCTTG
TTCATACCTGTACCCCCAAATTCCTAGGATGGCATCTGCCCTTCAGGGGGCACTAAAATGTATTATTGAAACAGCA
TTCTGGGCTTAAATAGGTGTATGTATGTGTTGGTTGTGACTGTACTATTTCTAGTATAGTGAACCTACATACTGAA
TATCCAAGTTCTCAGCACCTACTTTTGTCAAATCTTAACATTTTGCCACTTCGAGATCACATTGCCATTCTCCC
CTCCAGAGGTAACAATTATCCACAATTTGATGTTTATCATTCCTGIGTTGTTGTACTTTCACTGTGTATAACCTA
AACCATCTACTCTTTAGTACTGTTTTATATATTTTAAAGCCTCATACTTGCTCATTCTACAGCTTTTTTCACTCA
TTATTGTATAATTATATCTGAAGCTCTCGTTTCAATTTTGTAGTCTGTGTAGCAGAATTCAATTACGGGAACCTA
CCATAATTTATCTGTTCTCCAGTTGAAGGCATGAAGTTGTTGCCAGTTTCTGTATTATAACACTGTAGTGGAACA
TTCTTCTGCATTGGGCTCACTGCGTGTTACCTAAGACGTATCACAGAATAAACACATTTAGCCTTATAGACATTG
CCAAATTGCTCTTCAAAGTAAATGTGAGTTTTTGTGAATTACATGAGTATGGAATGGTGTTTTATTATGACTTTA
GTTTGCATTTTCTCAA

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FIGURE 1478

CGCAGTTTGAATCGCGGTGCGACGAAGGAGTAGGTGGTGGGATCTCACCGTGGGTCCGATTAGCCTTTTCTCTGC
CTTGCTTGCTTGAGCTTCAGCGGAATTCGAAATCGCTGGCGGTAAGGCTGGAAAGGACTCCGGAAAGGCCAAGAC
AAAGGCGGTTTCCCGCTCGCAGAGAGCCGGCTTGCAAGTTCCAGTGGGCCGTATTCATCGACACCTAAAATCTAG
GACGACCAGTCATGGACGTGTGGGCGCGACTGCCGCTGTGTACAGCGCAGCCATCCTGGAGTACCTCACCGCAGA
GGTACTTGAAGTGGCAGGAAATGCATCAAAAGACTTAAAGGTAAAGCGTATTACCCCTCGTCACTTGCAACTTGC
TATTCGTGGAGATGAAGAATTGGATTCTCTCATCAAGGCTACAATTGCTGGTGGTGGTGTTCATTCCACACATCCA
CAAATCTCTGATTGGGAAGAAAGGACAACAGAAGACTGTCTAAAGGATGCCTGGATTCCCTTGTATCTCAGGACT
CTAAATACTCTAACAGCTGTCCAGTGTGGTGATTCCAGTGGACTGTATCTCTGTGAAAAACACAATTTTGCCTT
TTTGTAAATTCTATTTGAGCAAGTTGGAAGTTTAATTAGCTTTCCAACCAACCAATTTCTGCATTTCGAGTCTTAA
CCATATTTAAGTGTTACTGTGGCTTCAAAGAAGCTATTGATTCTGAAGTAGTGGGTTTTGATTGAGTTGACTGTT
TTTAAAAAACTGTTTGGATTTTAATTGTGATGCAGAAGTTATAGTAACAAACATTTGGTTTTGTACAGACATTAT
TTCCACTCTGGTGGATAAGTTCAATAAAGGTCATATCCCAAACATAAAA

1600/6881
FIGURE 1479

MAGGKAGKDSGKAKTKAVSRQRAGLQFPVGRIHRHLKSRTTSHGRVGATAAVYSAAILEYLTAEVLELAGNASK
DLKVKRITPRHLQLAIRGDEELDSLKATIAGGGVIPHIKSLIGKKGQOKTV

1601/6881

FIGURE 1480

AAGATGCTGAAAGGAAAGAAGGCCAAGGGAAAGAAGGTGGCTCCGGCCCCCTGCTGTCGTGAAGAAGCAGGAGGCT
AAGAAAGTGGTGAATCCCTGTTTGAGGAAAGGCCTAAGAATTTTGGCATTGGACAGGACATCCAGCCCAAAGA
GACCTCACCCGCTTTGTGAAATGGCCCCGCTATATCAGGTTGCAGCAGCAGAGAGCCATCCTCTATAAGCGGCTG
AAAGTGCCTCCTGCGATTAACCAAGTTCACCCAGGCCCTGGACCGCCAAACAGCTACTCAGCTGCTTAAGCTGGCC
CACAAGTACAGACCAGAGACAAAGCAAGAGAAGAAGGCTGTTGGCCCAGGCCGAGAAGAAAGCTGCTGGCAAAGG
GGACGTCCCCACCAAGAGACCACCTGTCCTTTGAGCAGGAGCTGGCTGTCTTCTTGCCTGCCCTATGTCGTAAAA
TGGTGGTCCCTTAGTGCATTATCAAGAGGAAGGCAAGACTGGGACGTCTCGTCCACAGGAAGACCTGCACCACTG
TCGCCTTCACACAGGTGAACTCGGAAGACAAAGGCGCTTTGGCTAAGCTGGTGGAAAGCTATCAGGACCAATTACA
ATGACAGATACGATGAGATCTGCCGTCCTGGGGTGGCAACATCCTGGGTCCTAAGTCTGTGGCTCGCATTGCCA
AGCTCGAAAAGGCAAAGGCTAAAGAACTTGCCACTAAACTGGGTAAATGTGCACTGTTGAGTTTTCTGTACATA
AAAATAATTAAATAATACAAATTTTCCTTCAAAGAAAAAAAAAAAAAAAAAAAA

1602/6881
FIGURE 1481

MLKGKKAKGKKVAPAPAVVKKQEAKKVVNPLFEERPKNFGIGQDIQPKRDLTRFVKWPRYIRLQQQRAILYKRLK
VPPAINQFTQALDRQTATQLLKLAKYRPETKQEKKAVGPGREESCWQRGRPHQETTCPLSSWLSSCLPYVVKWW
SLSALSRGRQDWDVSSSTGRPAPLSPSHR

1603/6881

FIGURE 1482

CCTCTCTCCGGTCCGTGCCTCCAAGATGACAAAGAAAAGAAGGAACAATGGTCGTGCCAAAAAGGGCCGCGGCCA
CGTGCAGCCTATTGCTGCACTAACTGTGCCCCGATGCGTGCCCAAGGACAAGGCCATTAAGAAATTCGTCATTTCG
AAACATAGTGGAGGCCGCAGCAGTCAGGGACATTTCTGAAGCGAGCGTCTTCGATGCCTATGTGCTTCCCAAGCT
GTATGTGAAGCTACATTACTGTGTGAGTTGTGCAATTCACAGCAAAGTAGTCAGGAATCGATCTCGTGAAGCCCG
CAAGGACCGAACACCCCCACCCCGATTTAGACCTGCGGGTGCTGCCCCACGTCCCCCACCAAAGCCCATGTAAGG
AGCTGAGTTCTTAAAGACTGAAGACAGGCTATTCTCTGGAGAAAAATAAAATGGAAATTGTACTTA

1604/6881
FIGURE 1483

GAACCGCCATCTTCCAGTAATTCGCCAAAATGACGAACACAAAGGGAAAGAGGAGAGGCACCCGATATATGTTCT
CTAGGCCTTTTAGAAAACATGGAGTTATTCCTTTGGCCACGTATATGCGAATCTATAAGAAAGGTGATATTGTAG
ACATCAAGGGAACGGGTACTGTTCAAAAAGGAATGCCCCACAAGTGTTACCATGGCAAACTGGAAGAGTCTACA
ATGTTACCCAGCATGCTGTTGGCATTGTTGTAAACAAACAAGTTAAGGGCAAGATTCTTGCCAAGAGAATTAATG
TGC GTATTGAGCACATTAAGCACTCTAAGAGCCGAGATAGCTTCCTGAAACGTGTGAAGGAAAATGATCAGAAAA
AGAAAGAAGCCAAAGAGAAAGGTACCTGGGTTCAACTAAAGCGCCAGCCTGCTCCACCCAGAGCAGCACACTTTG
TGAGAACCAATGGGAAGGAGCCTGAGCTGCTGGAACCTATTCCCTATGAATTCATGGCATAGGTGTTAAAAAAA
AAAAAATAAAGGACCTCTGGGCTACAA

1605/6881
FIGURE 1484

ATGAATTTTGAACCCTTATCCTTGAGCACTGATCAATTTTCTAAAGTTACTGGGGGTGTGGAAACAGTAAAGCTT
AAACTGACACAAGATGAAATAGAAAACCTTACATTGCCCTGTCTCCATTAAGGAACTTGAAGAAGCCAAATTGGCA
GAGAATGCTTGTACCCTGGCTGACCTGACAGAGGGTCAGGTTGGCAAGCTACTCATCCGCAAGTCTGGAAGGGTG
CAACTCCTCTTGGGCAAGGTGACTCTGGACGTGACCATGGGAACTGCCTGCTCCTTCCTGCAGGAGCTGGTGTCC
GTGGGCCTTGGAGACAGTAGGACAGGGGAGATGACAGTCCTGGGACACGTGAAGCACAACTTAGGAAGCAGCAG
CAGGGAGGAGTGGCTGTGACATCACAGCCTGTGACTCTACTGGTGCAACAAGCAGTAACCCCTCTGGGCACCTCT
AGCTCTCTCTCAGGGCCCTGGGGCCACACTGGTGAAGCAAGGCCCCCGAAGGCGAGTCCCATCCCCTTTCCACCC
CGAGAAAAGCACCTTTCCCCAAAGCCACAGCCCTGCCAGGGGTTCTATCTCCTCTCTCAGGCCAAATAA

1606/6881
FIGURE 1485

GGGAAGTGCTGTTGGAGCCGCTGTGGTTGCTGTCCGCGGAGTGGAAGCGCGTGCTTTTGTGTTGTGTCCCTGGCCA
TGGCGCTGCAGCTCTCCCGGGAGCAGGGAATCACCCCTGCGCGGGAGCGCCGAAATCGTGGCCGAGTTCTTCTCAT
TCGGCATCAACAGCATTATATATCAGCGTGGCATATATCCATCTGAAACCTTTACTCGAGTGACAGAAATACGGAC
TCACCTTGCTTGTAAGTACTGATCTTGAGCTCATATAAATACCTAAATAATGTGGTGGAACAACCTGAAAGATTGGT
TATACAAGTGTTTCAAGTTCAGAACTGGTTGTAGTTATCTCAAATATTGAAAGTGGTGAGGTCCTGGAAAGATGGC
AGTTTGATATTGAGTGTGACAAGACTGCAAAAGATGACAGTGCACCCAGAGAAAAGTCTCAGAAAGCTATCCAGG
ATGAAATCCGTTTCAAGTATCAGACAGATCACAGCTACGGTGACATTTCTGCCACTGTTGGAAGTTTCTTGTTTCAT
TTGATCTGCTGATTTATACAGACAAAGATTTGGTTGTACCTGAAAAATGGGAAGAGTCGGGACCACAGTTTATTA
CCAATTCTGAGGAAGTCCGCCTTCGTTTCAATTTACTACTACAATCCACAAAGTAAATAGCATGGTGGCCTACAAAA
TTCCTGTCAATGACTTGAGGATGACATGAGGAAAATAATGTAATTGTAATTTTGAAATGTGGTTTTCTTGAAATCA
GGTCATCTATAGTTGATATGTTTTATTTTTCATTGGTTAATTTTTTACATGGAGAAAACCAAAATGATACTTACTGAA
CTGTGTGTAATTGTTTCTTTATTTTTTTTGGTACCTATTTGACTTACCATGGAGTTAACATCATGAATTTATTGCA
CATTGTTCAAAGGAACCAGGAGGTTTTTTTTGTCAACATTGTGATGTATATTCCTTTGAAGATAGTAACTGTAGA
TGGA AAAACTTGTGCTATAAAGCTAGATGCTTTCCCTAAATCAGATGTTTTGGTCAAGTAGTTTGACTCAGTATAG
GTAGGGAGATATTTAAGTATAAAATACAACAAAGGAAGTCTAAATATTCAGAATCTTTGTTAAGGTCCTGAAAGT
AACTCATAATCTATAAACAATGAAATATTGCTGTATAGCTCCTTTTGACCTTCATTTTCATGTATAGTTTTCCCTA
TTGAATCAGTTTCCAATTATTTGACTTTAATTTATGTAACCTGAACCTATGAAGCAATGGATATTTGTACTGTTT
AATGTTCTGTGATACAGAACTCTTAAAAATGTTTTTTCATGTGTTTTATAAAATCAAGTTTTAAGTGAAAGTGAG
GAAATAAAGTTAAGTTTGTTTTAAAAAAAAAAAAAAAAAAAAA

1607/6881
FIGURE 1486

MALQLSREQGITLRGSAEIVAEFFSFGINSILYQIRGIYPSETFTRVQKYGLTLLVTTDLELIKYLNNVVEQLKDW
LYKCSVQKLVVVISNIESGEVLERWQFDIECDKTAKDDAPREKSQKAIQDEIRSVIRQITATVTFLPLEVSCS
FDLLIYTDKDLVVPEKWEESSGPQFITNSEEVRLRSFTTTIHKVNSMVAYKIPVND

1608/6881
FIGURE 1487

CTGGGATTACAGGTGTGAGCCATCTTGCTCATTTTAGTTTAACTTTTGAGTGGTTTGTGTCTCCTGATTGGACT
CCTACAAATACAGAATTGATGCTAGGAAGGGTACCAGGAGATAGATGCACACAGATGGGATTTGGGAGTAGGTTT
GGTTATCCAAGGAGCAGTGCTGAGCTCCTTGCTAATGGGATATGGGATGCTGGTGATTTCAGGAAGTGACCTCA
CAATGACTCAAGCTACCACATACTGTTGATTGTGAAATGCCAGTTGAAGCATATGTCCTGCGAGCTTAGGGGTGC
TACAAGTTGACCACTGCAGCAGTAAAGATGACTCTGAAGAATGGCATGGGATGGATCCTTTTGAATGCACCTTGAG
CAGCGGTCTCCAACCACAGGGCCACAGAGCTGGAGCTGGATCTACCATGAAAGACTTCTGAATCCAGGAAGAGAG
ACTGACTGGGCAACATGTTATTCAGGTGGGACCATCCAGTTGCAGGAAAACAAGCTTAACATGCCCACTGATTCT
ACATTATGCTCCTACCTCCCGGCAGCCTCTCCAGGCCCAGAACTTTCTCCAGTCAGCCTCTACAGACCAAGCTCA
TGACTCACAATGGCCTATTTAGGCCCATAACCCTACCTCACGGCAGTCTCCGCAGATGAGCCTACTGCCTCACAAC
AGCCTCCACAGGCACAGCTCCATCGTTACAATGGCCTCTTTAGACCCAGCTCCTGCCTCCCAGCCTTCTCTCTAG
GCCCTGAACTTTCTGAAGTCGACCTCACCAGGCCCAGCTCATGCTTCTTTGCAGCCTCTCCAGGCCCAGCTCCTG
CATCTTGGTGGCCCCCTCCAGGCCCAGCCTCTGCCTCCCGTCGGCCTCTACAGTCCCAACATCTGCCTCATAGCAG
ATTCTTGAGGCCCAGCATCTGCCTCACTGTGGACCCCCCAGACCCAGATGGTGTCTCACTGTGGCATCCTCAGGC
AAAGCTCCTGCCTTTTCGGCAGCCTCTCCAGGCCCAGCTCCTCCTGCCTCCCAGTGGCCTCTTTCGGCCCCAGCCCA
GCTCATGCCTCCCAGCGGCCCTTCCCAGGCCCCGCTTTTGACTTTCGGTGGCCTCTGCAGGCCTCGACAAGGCCTG
GCCTCCTGCCTCCCCGAA

1609/6881
FIGURE 1488

MLLPPGSLSRPRTFSSQPLQTKLMTHNGLFRPIPYLTAVSADEPTASQOPPQAQLHRYNGLFRPSSCLPAFSLGP
ELSEVDLTRPSSCFFAASPGPPLPPVGLYSPNICLIADS

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FIGURE 1489

AGGGCCGGGGTGGGGCGCTGGCGTTTCCGTTGCTTGGATCAGTCTAGGTGCAGCTGCGGATCCTTCAGCGTCTGC
ATCTCGGCGTCGCCCCGCGTACCGTCGCCCCGGCTCTCCGCCGCTCTCCCGGGGGTTGCGGGCACTTGGGTCCCAC
AGTCTGGTCCTGCTTACCTTCCCCTGACCTGAGTAGTCGCCATGGGCACAGGTTCTCAGAGGCACTGTGACTGAC
TTCCCTGGATTGATGAGCGGGCTGATGCAGAACTCTTCGGAAGGCTATGAAAGGCTTGGGCACAGATGAGGAG
AGCATCCTGACTCTGTTGACATCCCGAAGTAATGCTCAGCGCCAGGAAATCTCTGCAGCTTTTAAAGACTCTGTTT
GGCAGGGATCTTCTGGATGACCTGAAATCAGAACTAACTGGAAAATTTGAAAAATTAATTGTGGCTCTGATGAAA
CCCTCTCGGCTTTATGATGCTTATGAACTGAAACATGCCTTGAAGGGAGCTGGAACAAATGAAAAAGTACTGACA
GAAATTATTGCTTCAAGGACACCTGAAGAACTGAGAGCCATCAAACAAGTTTATGAAGAAGAATATGGCTCAAGC
CTGGAAGATGACGTGGTGGGGGACACTTCAGGGTACTACCAGCGGATGTTGGTGGTTCTCCTTCAGGCTAACAGA
GACCCTGATGCTGGAATTGATGAAGCTCAAGTTGAACAAGATGCTCAGGCTTTATTTACAGGCTGGAGAACTTAAA
TGGGGGACAGATGAAGAAAAGTTTATCACCATCTTTGGAACACGAAGTGTGTCTCATTGAGAAAGGTGTTTGAC
AAGTACATGACTATATCAGGATTTCAAATTGAGGAAACCATTGACCGCGAGACTTCTGGCAATTTAGAGCAACTA
CTCCTTGCTGTTGTGAAATCTATTGGAAGTATACCTGCCTACCTTGCAGAGACCCTCTATTATGCTATGAAGGGA
GCTGGGACAGATGATCATACCCTCATCAGAGTCATGGTTTCCAGGAGTGAGATTGATCTGTTTAACATCAGGAAG
GAGTTTAGGAAGAATTTTGCCACCTCTCTTTATTCCATGATTAAGGGAGATACATCTGGGGACTATAAGAAAGCT
CTTCTGCTGCTCTGTGGAGAAGATGACTAACGTCACGGGGAAGAGCTCCCTGCTGTGTGCCTGCACCACCCCA
CTGCCTTCCTTCAGCACCTTTAGCTGCATTTGTATGCCAGTGCTTAACACATTGCCTTATTCATACTAGCATGCT
CATGACCAACACATACACGTCATAGAAGAAAATAGTGGTGCTTCTTTCTGATCTCTAGTGGAGATCTCTTTGACT
GCTGTAGTACTAAAGTGTAATGTTACTAAGTTTAAATGCCTGGCCATTTTCCATTTATATATATTTTTTAAG
AGGCTAGAGTGCTTTTAGCCTTTTTTAAAACTCCATTTATATTACATTTGTAACCATGATACTTTAATTAGAAG
CTTAGCCTTGAAATTGTGAACCTCTGGAAATGTTATTAGTGAAGTTCGCAACTAACTAAACCTGTAAAATTATG
ATGATTGTATTCAAAGATTAATGAAAAATAAACATTTCTGTCCCCCTGAATTAT

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FIGURE 1490

MAQVLRGTVTDFPGFDERADAETLRKAMKGLGTDEESILTLLTSRSNAQRQEISA AFKTLFGRDLLDDLKSELTG
KFEKLIVALMKPSRLYDAYELKHALKGAGTNEKVLTEIIASRTPEELRAIKQVYEEYGSSEDDVVGDTSGYYQ
RMLVVLLQANRDPDAGIDEAQVEQDAQALFQAGELKWGTDEEKFITIFGTRSVSHLRKVFDKYMTISGFQIEETI
DRETSGNLEQLLLAVVKSIRSIPAYLAETLYYAMKGAGTDDHTLIRVMVSRSEIDLFNIRKEFRKNFATSLYSMI
KGDTS GDYKKALLLLCGEDD

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FIGURE 1491

CATAACAAGCCAAACGCCAGACCGAGAGTGCCTCCGTGCGCGAGTGCCCGGTGTGTGCGCGCCGGCGAGAGCAGG
GGCCCCCGCGGCTCCCCGCCCCGCCGCGGCCCGAACTCATGCAGCTCCGAGCGAGCGAGCGGGCGCCAGCCAGCG
CCTCGGCCGAACCCCTCCGCAGCAGGCTGCCTGCTGTTTCCCGGGGAGATCATGAAACGAGGTCGCCTTCCAGC
AGCAGTGAGGATTCTGACGACAATGGCAGCCTGTCAACTACTTGGTCCCAAGATCCCGATCCAGCATAGGAGA
AGCTCCTGCTCCAGACATGAAGATCGAAAGCCTTCAGAGGTGTTTAGGACAGACCTGATCACTGCCATGAAGTTG
CATGACTCCTACCAGCTGAATCCGGATGAGTACTATGTGTTGGCAGATCCCTGGAGACAGGAATGGGAGAAAGGG
GTCCAGGTGCCGTGTGAGCCCCGGGACCATCCCTCAGCCTGTGGCCAGGGTTGTGTCTGAAGAGAAATCCCTCATG
TTCATCAGGCCCAAGAAGTACATCGTGTCTATCAGGCTCTGAGCCTCCCGAGTTGGGCTATGTGGACATCCGGACG
CTGGCTGACAGCGTGTGTGCTATGACCTCAATGACATGGATGCTGCATGGCTGGAAGTACCAATGAAGAATTT
AAGGAGATGGGAATGCCTGAAGTAGATGAATACACCATGGAGAGGGTCTTAGAGGAATTTGAGCAGCGATGCTAC
GACAATATGAATCATGCCATAGAGACTGAGGAAGCCTGGGGATCGAATATGATGAAGATGTTGTCTGTGATGTC
TGCCAGTCTCCTGATGGTGAAGACGGCAATGAGATGGTGTCTGTGACAAATGCAACATCTGTGTGACACAGGCC
TGTTATGGAATCCTCAAGGTACCAGAGGGCAGCTGGCTGTGCCGGACATGTGCCCTGGGGGTTAGCCAAAATGT
CTGCTGTGTCCGAAGAAGGGTGGAGCTATGAAGCCCACCCGTAGCGGAACCAAGTGGGTCCACGTTAGCTGTGCT
CTGTGGATCCCTGAGGTGAGCATTGGCAGCCCAGAGAAGATGGAGCCCATACCAAGGTGTACACATTCCAGC
AGCCGGTGGGCGCTAGTGTGACGCTCTGCAATGAGAAGTTTGGGGCCTCTATACAGTGTCTGTGAAGAACTGC
CGCACAGCCTTCCATGTGACCTGTGCTTTTGACCGGGGCTGGAGATGAAGACCATCTTAGCAGAGAATGATGAA
GTCAAGTTCAAGTCTATTGCCCAAAGCACAGCTCACATAGGAAACCCGAGGAGAGTCTTGGCAAGGGGGCTGCA
CAGGAGAATGGGGCCCCCTGAGTGTTCCTCCCGGAATCCGCTGGAGCCCTTGCCAGCCTTGAGCAGAACCGGGAG
GAGGCCACCGGGTGAAGTGTCCGTAAGCAGAAGCTGCAGCAGTTGGAGGATGAGTTCTACACCTTCGTCAACCTG
CTGGAAGTTGCCAGGGCTCTGCGGCTGCCTGAGGAAGTAGTGGATTTCTGTACCAGTACTGGAAGTTGAAGAGG
AAGGTCAACTTCAACAAGCCCCCTGATCACCCCAAAGAAAGATGAAGAGGACAATCTAGCCAAGCGGGAGCAGGAT
GTCTTATTTAGGAGGCTGCAGCTGTTACGCACCTGCGGCAGGACCTGGAGAGGGTAATGATTGACACTGACACC
TTATAGTGACTTAGAGAAGAAGATGCAAAGAGGCGAACGCTCGCCAGAGCAAGAAATGATAGCCAGTCATATAC
TCTCAGACCCTTGTACACACCACAGCATGAGGTTGTGTTGGTTAAAAATATTTATGGGCTGGTAAACTCATTGTA
CATATGTGAAAAGTGTACTGAGTGGGGAGCTTCTTTGTGGTTTTTTTTTTTTTAAAAACACTTTCCCATTAATC
TTTACTGTTTTGTAAAGATCAAATGGGGTGTGTCTTCCCCACCCCAATTCCTTATTCTAGAGCTAGAGTGAATGA
GCCCCAAGAAATGACCAAGGAGTTGACTCAGGATGTTTACAGACTGATTTAGAAAACAGAACGGATTTCAT
TTCTAATGGAGGGGGCCAGAGATGGGAAAATTTCTTGTTCAGTCCGGGGAAACACACCTAGGTGCTGGTGATGGG
CTTATGAAGGAAGCTAAGCACGGCTGCTCACTGGCCCCCACTTTGTTTTCTTGGGTAATTCACAGGGGAATTCCCA
GTACTGTCTATGGAGCAGAGCAGGCAGTGGGTGCTGATGTGTGTGATGAGCTGTATGTACACATGCATATATCTG
TTACAGAAGATACTCCTGGCAGTGAGGTGCTAAGTCATCACTGAGGCTGTGTGTGTGTGTGTGTGTGCGCGTGCC
CGTGTCCATCCATGTCTCTGTTGTGTGTCTGTGTGCGGGTATGGGTGGGATTCTGGTGGACAGGGGTGTGAGAT
CIGTCTGAGGAGCCCCAGTCATGCTCAGCACGCTACAGATGTGTTGTTTGTGCTGCTTTTGTGCTCCCCCACTTTCC
ATCACCTCTGGAGTCCCGTCTGGACGTCCTTCTGCTACAGGAATAATGAGGCGTGGGCTGCCTCCCGCTAGGG
CCTCCTGCTCCCTGTAGGTAGTTTCTGGCTGAGGCTTGCTAATTGGGGATGCTTCTTAGAGCATCTTCCACATCA
ACTCCCCTGGCTGCTGGCTACCGATTAAATTCATTAGTGTGAAAGAGGTGGGAGTGAGGTTTCTGGCCTGAAGC
AGTCTGCACTGAAAGGTACCCAAGTGGCCTGAAACAGTGTAGGGAAAGACCTGGGAAACACTGGACCAAAAAAGC
CTGATCTCATGGAGACCTGCATGGCCCTGTTAGAGATGGCGTAGAAGTGAAGTCTTAAAGGGAGCATTAGAGAT
CCTTTTAATACACGACTGAGTGCCAGCTTATTTGTGATGCCCTTCCAGACCAGGTAGGATTCCTGGGAAGGC
CGCGGATTCCGGCCCTGGAAGAGGCAGGATCCTGGAGCAGTTTTGTGAGGCTTTTGTGCTCCCATACGCCCCCTG
GTGGTGAGTGTAAGAAGACTTTGCCTCTCACAACCTACATGTATGTGTGGCATTTTTGTAGAGATGAGAAAAGG
ATTGAGAAGGATAAACTGGAATCCTGGTAAGAAGCCTTTATGCCAGCCCGACACCTGCTGTAATTGGGGTGCATG
AGCTATGGAGTCAGATAGTTGTGGGAGGGGGAGGACAAGAAGTCTATTGTTTGGACTGTGTTGTCTCACAATC
ACCACAAAATAAAAGTGTAGAAAATGCTTGTGGTGTACTAACTCTTTTCTGTACTTAAGTTACTCAGATTAAAT
GCACTTCTAATTCTAAACATTTTTTTTGGAGTCATCACTGTGCTGTTTAAAGTAGAACAATGCCAACGATGTATG
AGAAACAGGGAATAAATCAGGATTTGTGTGTGT

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FIGURE 1492

MKRGRLPSSSEDSDDNGSLSTTWSQNSRSQHRRSSCSRHEDRKPSEVFRTDLITAMKLHDSYQLNPDEYYVLADP
WRQWEKGVQVPVSPGTIPQPVARVVSEEKSLMFIRPKKYIVSSGSEPPELGYVDIRTLADSVCRYDLNDMDAAW
LELTNEEFKEMGMPELDEYTMERVLEEFEQRCYDNMNHAIETEEGLGIEYDEDVVCDCVCQSPDGEDGNEMVFCDK
CNICVHQACYGILKVPEGSWLCRTCALGVQPKCLLCPKKGAMKPTRSGTKWVHVSCALWIPEVVSIGSPEKMEPI
TKVSHIPSSRWALVCSLCNEKFGASIQCSVKNCRTAFHVTCAFDRGLEMKTILAENDEVKFKSYCPKHSSHRKPE
ESLGKGAQAQENGAFECSPRNPLEPFASLEQNREEAHRVSVRKQKLQOLEDEFYTFVNLLDVARALRLPEEVVDFL
YQYWKLKRKVNFNKPLITPKKDEEDNLAKREQDVLFRRLQLFTHLRQDLERVMIDTDTL

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FIGURE 1493

GTGAGTGTGTGTGCGGTGCGACGGCGTGTGTCTCCGGCCGCGGGTTCCGCCTCCTCCCCTGCCGCCGCTGCTCAGG
GTGTAAGTCAATGTGAAGCAGCAGCTCCAGCCCCGGGATAAACATGGCGACGTCTCTGCATGAGGGACCCACGAA
CCAGCTGGATCTGCTCATTCCGGGCCGTGGAAGCATCAGTTCACAGCAGTAATGCACACTGTACAGATAAGACAAT
TGAAGCTGCTGAAGCCCTGCTTCATATGGAATCTCCTACCTGCTTGAGGGATTCAAGAAGTCTGTGGAAGTGT
TGTTCCCTCCTTGTGTATCAACTCCAGAATTCATCCATGCTGCTATGAGGCCAGATGTCATTACAGAACTGTAGT
GGAGGTGTCAACTGAAGAGTCTGAACCCATGGATACCTCTCCTATTCCAACATCACCAGATAGCCATGAACCAAT
GAAAAAGAAAAAAGTTGGCCGTAAACCAAGACCCAGCAATCACCATTTCCTAATGGGTCTCCTGAGTTAGGTAT
AAAGAAGAAACCAAGAGAAGGAAAAAGGAAACACAACCTATTTGTGGGAGTTTCTTTTAGATCTACTTCAAGATAA
AAATACTTGTCCCAGGTATATTAATGGACTCAGAGAGAAAAAGGCATATTCAAGCTGGTGGATTCAAAGGCTGT
CTCTAAGCTTTGGGGAAAGCATAAGAAACAAACCAGACATGAACATGAAACCATGGGACGAGCTTTGAGATACTA
CTACCAAGGGGAATTCTTGCAAGGTTGAAGGACAGAGGCTTGTATATCAGTTCAAGGATATGCCGAAAAACAT
AGTGGTCATAGATGATGACAAAAGTGAAACCTGTAATGAAGATTTAGCAGGAACACTACTGATGAAAAATCATTAGA
ACGAGTGTCACTGTCTGCAGAAAGTCTCCTGAAAGCAGCATCCTCTGTTCCGAGTGGAAAAAATTCATCCCCAT
AACTGCTCCAGAGCAGAGAAGGGTGTAGCTAGAGTTGTGAATATCACTTCCCCTGGGCACGATGCTTCATCCAG
GTCTCCTACTACCACTGCATCTGTGTGACGAACAGCAGCTCCAAGGACAGTTCGTGTGGCAATGCAGGTACCTGT
TGTAATGACATCATTGGGTGAGAAAATTTCAACTGTGGCAGTTCAGTCAGTTAATGCAGGTGCACCATTAATAAC
CAGCACTAGTCCAACAACAGCGACCTCTCCAAAGGTAGTCATTGAGACAATCCCTACTGTGATGCCAGCTTCTAC
TGAAAATGGAGACAAAATCACCATGCAGCCTGCCAAAATTATTACCATCCCAGCTACACAGCTTGACAGTGTCA
ACTGCAGACAAAGTCAAATCTGACTGGATCAGGAAGCATTAACTTGTGGAACCCCATTTGGCTGTGAGAGCACT
TACCCCTGTTTCAATAGCCCATGGTACACCTGTAATGAGACTATCAATGCCTACTCAGCAGGCATCTGGCCAGAC
TCCTCCTCGAGTTATCAGTGCAGTCATAAAGGGGCCAGAGGTTAAATCGGAAGCAGTGGCAAAAAAGCAAGAACA
TGATGTGAAAACCTTTGCAGCTAGTAGAAGAAAAACCAGCAGATGGAAATAAGACAGTGACCCACGTAGTGGTGT
CAGTGCGCCTTCAGCTATTGCCCTTCCTGTAACATATGAAAACAGAAGGACTAGTGACATGTGAGAAATAAAATAG
CAGCTCCACCATGGACTTCAGGCTGTTAGTGGCAGTACTGACATAAACATTTGCAAGGGAAGTCATCAAGAAAAG
TCAAGAAGACTTTTAAACATTTTAAATGCATATACAAAAACAATCAGACTTACTGGAAATAAATTACCTATCCC
ATGTTTCAGTGGGAAATGAACATACATATTGAGATGCTGACAGAAAACCTGCCTCTTACAGTAGGAAACAACCTGAAC
CCATCAATAAGAAAAAGGATCGAAAGGGACCAAGCAGCTCACTACGATATCAAGTTACACTAAGACTTGGAACAC
TAACATTCTGTAAGAGGTTATATAGTTTTTTCAGTGGGAGGGGTTGGGATGGGTAATCTCATTGTTACATATAGCAA
TTTTTGATGCATTTTATATGCATACCAGCAATTATTACTGTGTTTCGCACAGTTCCTCACTTAAGTGGTGTATGTG
AAGACTCTGCTAATATAGGTATTTTGAATGTGAATTGAAGAATGGATCCCAAAAACCTTCAGAAAGAGGATAGCA
AAAAAGATCTAGTGCATTTTATATATATATATATATATATATATACATATATATATATATATAGCTTAAG
CTGATTTAAACAAAGGCCTTAGACTAATTTTCGATTTTCTTTCTTGAAATAAGCTAATGGCTTGTGTGTAAA
GCTTTTTTATTAAAGAAAAATTTTAAAAATCTTGTACCTAGCACAGTATTGTTATAGAATATACATGTAACATT
TTATATGGTAGTTTAAAGTCTGTGAGTTTCTTAATTGTGGACAAATTAACAGTTGGCTCTGGCCTTTTGTGTAAAC
ATGCCTGTGTCACTCACTTAGCCTTGGCATTGTGTGACACATAACATTTTCAGTTCGTGTCACTTGGAAGTTC
AGGCTCAGCATGAATTTTGGCAGGTAGCTCTAATACCTGGAGTTTCTTTGTTTTTTTTCTTTTTTTTAGTTG
AAGTTTATGAGGGAAATACCAGTGTTCAGTTTTGAACATATAATAGTTTGTATATTCAACATTTGAAGTATATTCT
ATTTTGTGTACTCTTGTTCAAAGTGTATTCAAGTAGGTTTTCTGAAATATAGAAATGAAATTTATCTTCTGTT
TTGGTCTCTGGTGATATTTTAAACAATATTTAAAGTCAGTATAGAAGTGTTTTAGTTAGGAAGTGATAAAACAT
CTCTCTTCTCCTTCCCAACTACTGCATGAAGAAATCTACTTCCATTATATTAATATTG

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FIGURE 1494

GCACGAGGGACTTCTGTTCCAGAGCAAAGGTCATTTCAGCCGCTTGAATCAGCCTTTTCCCCCACC CGGTCCCCA
ACTTTGTTTACCCGATAAGGAAGGTCAGCATTCAAAGTCAAGAAGCGCCATTTATCTTCCCGTGCGCTCTACAAA
TAGTTCCGTGAGAAAGATGGCCGGGAAGTCGATCCTGCTGGCTGCTGTCTCTATTCTCTCGGCCTGTCAGCAAAG
TTATTTTGCTTTGCAAGTTGGAAAGGCAAGATTAAAATACAAAGTTACGCCCCCAGCAGTCACTGGGTCACCAGA
GTTTGAGAGAGTATTTGCGGCACAACAAAAGTGTGTGGAGTTTTATCCTATATTCATAATTACATTGTGGATGGC
TGGGTGGTATTTCAACCAAGTTTTTGCTACTTGTCTGGGCTGCTGTACATATATGGCCGTCACCTATACTTCTG
GGGATATTCAGAAGCTGCTAAAAAACGGATCACCGGTTTCCGACTGAGTCTGGGGATTTTGGCCTTGTTGACCCT
CCTAGGTGCCCTGGGAATTGCAAACAGCTTTCTGGATGAATATCTGGACCTCAATATTGCCAAGAACTGAGGCG
GCAATTCTAACTTTTTCTCTCCCTTTAATGCTTGCAGAAGCTGTTCCCACCATGAAGGTAATATGGTATCATTT
GTTAAATAAAAATAAAGTCTTTATTCTGTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1495

MAGNSILLAAVSILSACQQSYFALQVGKARLKYKVTPPAVTGSPEFERVFRAQQNCVEFYPIFIITLWMAGWYFN
QVFATCLGLVYIYGRHLYFWGYSEAAKKRITGFRLSLGILALLTLGALGIANSLDEYLDLNIAKKLRRQF

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FIGURE 1496

CGCCGAGCTCCAGCCGAAGGAGAAGGGGGGTAAGTAAGGAGGTCTCTGTACCATGGCTCGTACAAAGCAGACTGC
CCGCAAATCGACCGGTGGTAAAGCACCCAGGAAGCAACTGGCTACAAAAGCCGCTCGCAAGAGTGCGCCCTCTAC
TGGAGGGGTGAAGAAACCTCATCGTTACAGGCCTGGTACTGTGGCGCTCCGTGAAATTAGACGTTATCAGAAGTC
CACTGAACTTCTGGTTCGCAAACCTCCCTTCCAGCGTCTGGTGCGAGAAATTGCTCAGGACTTTAAAAACAGATCT
GCGCTTCCAGAGCGCAGCTATCGGTGCTTTGCAGGAGGCAAGTGAGGCCTATCTGGTTGGCCTTTTTGAAGACAC
CAACCTGTGTGCTATCCATGCCAAACGTGTAACAATTATGCCAAAAGACATCCAGCTAGCACACAGCATACGTGG
AGAACGTGCTTAAGAATCCACTATGATGGGAAACATTTTCATTCTCCCATGGGGTCAAAGGTACCTAAGTATATG
ATTGCGAGTGAAA

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FIGURE 1497

ATGAAGAAAGGAAAGCTCATCTCTGCCACATTTCTGGAAAGCGCTGTTCCCGGTGCTCACCTATTGTCTCGCAGG
CAGGTTTCTGAAAGGATGGAGGAAATCTGCAGGAAGCACATGTTTCTGCTTAATTCCTGCCAGCTTTTGGCTGTC
AGACCCCAAATCCTTCAGCCACTAGCCTGTTTCAGGGCCCTGGTTTGATAACCCTGCAATTGCAGAGTGGAGTGGG
AGGAGAAGCCTCATACCTTTGTTTTTCTGGTTCTTCCCAACACCCTGGTGGCCTACTTGGGTGTCCCAAGCTC
TCTGTGGAAAATAGTGCACTCTCATTTAGCAACAACCTCCACCTAGCACAAAGTTCTGAGCTATACTTAAACCAGTGG
GGAGAGAGTGTTGGAATGATTAAGGCTTGCAATTCGACTGTGCAAGAAGAACCATTTTCTCTTCATGGTGCTGGAG
GCAGAGATTGAGGCTCTCAAGGAGGAGCTGCTCTTCATGAAGAAGAACCACGAAGAGGAAGTAAAGGCCTACAA
GCCCAGAGTGCCAGCTCTGGTTTGACCCCTGGAGGAGCTGGACAAGTATTGGTCTCAGCAGATTGAGGAGAGCGCC
ACAGTGGTCACCACGCAGCCTGCCAAGGTTGGAGCTGCTGAGATGATGCTCACAGAGCTGAGACATACAGTCCAG
TCTTTGGAGATCGACCTGGACTCCTTGAGAAATCTGAAGGCCAGCTTGGAGAACAGCCTGAATGGAGCAGCTCAA
CGGCATCCTGCTGCACCCGGAGTCAGAGCTGGCACAGACCCAGAGGGACAGTGCCAGGCCCAGGAGTACGAGGCC
CTGCTGAACATCAAGGTCAAGCTGGAGGCTGAGATCACCACTACTGCCGCCTGCTGGAAGATGACGAGGACTTC
AATCTTGTGGATGGCAAAGTGGTGTCTGAGACCAATGATACCAAAGTTCTGAGACATTAA

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FIGURE 1498

MKKGKLISATFLESAPGAHLLSRRQVSEEMEEICRKHMFLLNSCQLLAVRPQILQPLACSGPWFDNPAIAEWSG
RRSLIPLFFWFFPTPWPTWVSHKLSVENSASHLATTPPSTSSELYLNQWGESVGMKACIRLCKKNHFLFMVLE
AEIEALKEELLFMKKNHEEEVKGLQAQSASSGLTLEELDKYWSQQIEESATVVTTQPAKVGAAEMMLTELRTVQ
SLEIDLDSLRLNLKASLENSLNAAQRHPAAPGVRAGTDPEGQCQAQEYEALLNIKVKLEAEITTYCRLLEDEDF
NLVDGKVVSETNDTKVLRH

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FIGURE 1499

AAAACACCAAATGGCGGATGACGCCGGTGCAGCGGGAGGGCCCGGAGGCCCTGGTGGCCCTGGGATGGGGAACCG
CGGTGGCTTCCGCGGAGGTTTCGGCAGTGGCATCCGGGGCCGGGGTCGCGGAGGCAAGGCCGAGGATAAGGAGTG
GATGCCCCTACCAAGTTGGGCCGCTTGGTCAAGGACATGAAGATCAAGTCCCTGGAGGAGATCTATCTCTTCTC
TCTGCCCATTAAAGGAATCAGAGATCATTGACTTTTTCTGGGGGCCTCTCTCAAGGATGAGGTTTTGAAGATTAT
GCCAGTGCAGAAGCAGACCCGTGCCGGCCAGCGCACGAGGTTCAAGGCATTTCGTTGCTATCGGGGACTACAATGG
CCACGTCGGTCTGGGTGTTAAGTGCTCCAAGGAGGTGGCCACCGCCATCTGTGGGGCCATCATCCTGGCCAAGCT
CTCCATTGTCCCCGTGCACAGAGGCTACTGGGGGAACAAGATCGGCAAGCCCCACACCGTCCCTTGCAAGGTGAC
AGGCCGCTGCGGCTCTGTGCTGGTGCACCTCATCCCTGCACCCAGGGGCACTGGCATCGTCTCCGCACCTGTGCC
TAAGAAGCTGCTCATGATGGCTGGTATCGATGACTGCTACACCCAGCCCAGGGCTGCACTGCCACCCTGGGCAA
CTTCGCCAAGGCCACCTTTGATGCCATTTCTAAGACCTACAGCTATCTGACCCCTGACCTCTGGAAAGAGACTGT
ATTTACCAAGTCTCCCTATCAGGACTTCACTGACCACCTAGTCAAGACCCACACCAGAGTCTCCATGCAGCGGAC
TCAGGCTCCAGCTGTGGCTACAACGTAGGGTTTTTATACAAGAAAAATAAAGTGAATTAAGCGTGTCAAAAAAAA
AAAAAAAAAAAAAAAAAAAA

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FIGURE 1500

TGAGAACACGCTGTGTGGCTGAAAAGTGAAGGCAAGAGCTGATTTGGCCTCTGTGCTCCCCCTCCGCAAGGGGATC
GTTTTCTCCAGAAGAGCTGGATATTCTTTGCCCCAGTTATGGCAGACAAGTTAACGAGAATTGCTATTGTCAACC
ATGACAAATGTAAACCTAAGAAATGTCGACAGGAATGCAAAAAGAGTTGTCCTGTAGTTCGAATGGGAAAATTAT
GCATAGAGGTTACACCCCAGAGCAAAATAGCATGGATTTCCGAAACTCTTTGTATTGGTTGTGGTATCTGTATTA
AGAAATGCCCCCTTTGGCGCCTTATCAATTGTCAATCTACCAAGCAACTTGGAAAAAGAAACCACACATCGATATT
GTGCCAATGCCTTCAAACCTTCACAGGTTGCCTATCCCTCGTCCAGGTGAAGTTTGGGATTAGTTGGAACTAATG
GTATTGGAAAGTCAACTGCTTTAAAAATTTTAGCAGGAAAACAAAAGCCAAACCTTGGAAAGTACGATGATCCTC
CTGACTGGCAGGAGATTTTGACTTATTTCCGTGGATCTGAATTACAAAATTACTTTACAAAGATTCTAGAAGATG
ACCTAAAAGCCATCATCAAACCTCAATATGTAGACCAGATTCCCTAAGGCTGCAAAGGGGACAGTGGGATCTATTT
TGGACCGAAAAGATGAAACAAAAGACACAGGCAATTGTATGTGTCAGCAGCTTGATTTAACCCACCTAAAAGAACGAA
ATGTTGAAGATCTTTCAGGAGGAGAGTTGCAGAGATTTGCTTGTGCTGTCGTTTGCATACAGAAAGCTGATATTT
TCATGTTTGTATGAGCCTTCTAGTTACCTAGATGTCAAGCAGCGTTTAAAGGCTGCTATTACTATACGATCTCTAA
TAAATCCAGATAGATATATCATTGTGGTGGAAACATGATCTAAGTGTATTAGACTATCTCTCCGACTTCATCTGCT
GTTTATATGGTGTACCAAGCGCCTATGGAGTTGTCACTATGCTTTTGTAGTGAAGAGAAGGCATAAACATTTTTT
TGGATGGCTATGTTCCAACAGAAAACCTTGAGATTGAGAGATGCATCACTTGTTTTTAAAGTGGCTGAGACAGCAA
ATGAAGAAGAAGTTAAAAGATGTGTATGTATAATATCCAGGAATGAAGAAAAAATGGGAGAATTTGAGCTAG
CAATTGTAGCTGGAGAGTTTACAGATTCTGAAATTATGGTGTATGCTGGGGGAAAATGGAACGGGTAAAACGACAT
TTATCAGAATGCTTGTGGAAGACTTAAACCTGATGAAGGAGGAGAAGTACCAGTTCTAAATGTCAGTTATAAGC
CACAGAAAATTAGTCCCAAATCAACTGGAAGTGTTCGCCAGTTACTACATGAAAAGATAAGAGATGCTTATACTC
ACCCACAATTTGTGACCGATGTAATGAAGCCTCTGCAAATTGAAAACATCATTGATCAAGAGGTGCAGACATTAT
CTGGTGGTGAACACAGCGAGTAGCTTTAGCCCTTTGCTTGGGCAAACCTGCTGATGTCTATTTAATTGATGAAC
CATCTGCATATTTGGATTCTGAGCAAAGACTGATGGCAGCTCGAGTTGTCAAACGTTTCATACTCCATGCAAAAA
AGACAGCCTTTGTTGTGGAACATGACTTCATCATGGCCACCTATCTAGCGGATCGCGTCATCGTTTTTGTATGGTG
TTCCATCTAAGAACACAGTTGCAAACAGTCCCAAACCTTTTGGCTGGCATGAATAAATTTTTGTCTCAGCTTG
AAATTACATTGAGAAGAGATCCAAACAACCTATAGGCCACGAATAAACAACTTAATTCAATTAAGGATGTAGAAC
AAAAGAAGAGTGGAACTACTTTTTCTTGGATGATTAGACTGACTCTGAGAATATTGATAAGCCATTTATTA
GGAGTATTTACTAGAATTTTTTGTATATAAACTTGAATCAGGATTTTATGCCCCACATACTCTGGAACCTGAA
GTATAATATACTTAATATAACATAAAAAAGCCAGTTGGGTTCTAAATTGTAGTTGAAACACAGAAAATGCCACTTT
TCTGTTCTGAAGAGGCTCTTTTGTGCATAATATTCTAAAATGAAGACATTTCAAGCTATACAAATTACTTCCAA
GTTTTTCATGATGTATGGGAAGATTTTCAGTAGGTGTATTATATTCACGGTACCAAATGCTGACCAGTGTTGCTCC
ATTTTTTAAATCTTGAAGGGTTTCTGTACTTACCTGGTTTGCCAAGTATGCCAGTGTAATGAACTGCCCTTA
TTTTAAAGCCAGTCAAAGATTCCACTGATTGACATTTGATAAATAAACATCAGGATTATGTTTATTGTTTGT
TCAGTCTTTGCACTATATTACCAGTATATGGTTTCCGAGGAAGATTATCTACTGCAAAACACCACTGTTGAAAA
ATAGGTATTTTTAAATTGTTTTTAATCTTTTTTGGTGCTTTTAAACATGTTTAGCAAAAACCAATTGAGTTCCAT
TCCCCGCAAAAACCCCTAACTTTACTCTGAACCTTTTTTGTGTTTGCATTCCATGAGGTTCTGTATTGAGTCAT
TCTCTAGGTAATGTCATTTTTGTACACATATATTTATATAATCACTGATTGAGATTTAGGAAAAAGCATTCTAA
AGAATATTTGCTTCCCTTAGAACTACAGACTCGAAATCTTTAAAGATGGTGCCTAAGCATCTATGATTTTTTTT
AAGTTCCACAGATTTTTCTGTTGGGCAGCCAAGGATTATAAACCACTTCCCTAAAGGCAACATTAATGCAAAAGT
CCCCAGATGGCAATACAAAGTATCCCCCTGGTACCACATATATTCATTTGTGAGTTTGGATATAGAGCACATTATC
TAAACCATTTTGTAGTTCCAAAAACCCATCTAAATTTCTTGAGTTCCCTGAATTTTGAACAGGATTACCTGGAGCC
TGGAGCCACTTTAAGTTGTACTTCTGACTAACTGGAATTATGAGTGAGGAAGAGTGTCTACTAAATAAATGACT
GGGGCAAGCAAAATTGAGGAGGAAATTAGAACTGTTTGACAACTTTAAGAGCTACTTGAAATAACAGAAGTCT
TGATTAATATGCAATAATGGCTAGAAAGTATGGTTTAACTGGACCCTATTATGCCTTTTAAAAATAATTTAGT
AACCCATAAATACATGTTGTAAAAAATTCAAATATACAGAATGGAATAAAAAAATGATCTCCCTTTATTACCCTC
CCAAAGGTTACCAGCGTTTGAATTTAATAATGTATATTCTTTTCATGCTTTTTTCTGTGCACTTACCTAAGTGTGA
ATATGTAAAGGGTTTGTGTTGTATACAAATGGGATTATACTAAAATAAGTAATGCCTATTTTTAAGGATAGGTTA
AATTTGTGAATGATCATTTCAAATATATTGAATAAAATAAGCAAAAGCTATTGTTATTACTGATCCTG

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FIGURE 1501

MADKLTRIAIVNHDCKPKKCRQECKKSCPVVRMGKLCIEVTPQSKIAWISETLCIGCGICIKKCPFGALSIVNL
PSNLEKETTHRYCANAFKLHRLPIPRPGEVLGLVGTNGIGKSTALKILAGKQKPNLGKYDDPPDWQEILTYFRGS
ELQNYFTKILEDDLKAIKPKQYVDQIPKAAKGTVGSILDRKDETKTQAIVCQQLDLTHLKERNVEDLSGGELQRF
ACAVVCIQKADIFMFDEPSSYLDVKQRLKAAITIRSLINPDRIIIVVEHDLVLDYLSDFICCLYGVP SAYGVVT
MPFSVREGINIFLDGYVPTENLRFRDASLVFKVAETANEEVKKMCMYKYPGMKKKMGEFELAI VAGEFTDSEIM
VMLGENGTGKTTFIRMLAGRLKPDEGGEVPVLNVSYKPQKISPKSTGSRQLLHEKIRDAYTHPQFVTDVMKPLQ
IENIIDQEVQTLSSGGELQ RVALALCLGKPADVYLIDEPSAYLDSEQRLMAARVVKREILHAKKTAFVVEHDFIMA
TYLADRVIVFDGVPSKNTVANSPTLLAGMNKFLSQLEITFRRDPNNYRPRINKLNSIKDVEQKKS GNYFFLDD

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FIGURE 1502

AGGAAATGAGGCTGAACTTTGTAGTGCCCTCGCTAACCTTCAGACCAGTAAACCAGATGCTGTAGAGCAGACATG
TATATTGGAATCTACAGAAATTGCTTTGCTTAAACAACATCCCATATCATGAAGGCTTTAAAATGGCAATGAGCAA
AGTTTTGTCTTCACTGACTCCAGAGAACTGTATCAGACCATGGATACTCACTGTCAGAATGAGATGAGCTCTGG
AACTGGACAGAGTAATACTGTACAGAACATCCTTGAACCTTTCTACGTGTTAGATGTGTCCGAAGGCTTCTCTGT
TCTGCCTGTTATTGCTGGCACACTTGGGCAGGTTAAACCATAACAGTTCTGTGGAGAAAGACCAGCATCGTATTGC
TCTGGACCTCATATCTGAAGCCAATCACTTTTCTAAAGAAACACTTGAGTTTGGCTGAGACATGTGGAGGATGA
ATCTGCTATGTTACAAAGGCCAAAATCAGACAAGTTATGGAGCATAATTATATTGGATGTCATTGAGCCATCTGG
GCTCATTCAAGCAGGAAATAATGGAAAAAGCTGCAATATCCAGGTGTTTACTACAATCTGGAGGCAAGATCTTCC
TCAGTATGTGCTGATGTTTGGGTTGCTTGTGGAATCAGACACTCCTAGAGGAGAATGCTGTTCAAGGAACAGA
ACGTACTCTTGGATTAAATATAGCACCTTTTATTAACCAGTTTCAGGTACCTATACGTGTATTTTGGACCTATC
CTCATTGCCCTGTATACCTTTAAGCAAGCCAGTGGAACTCTTAAGACTAGATTTAATGACTCCGTATTTGAACAC
CTCTAACAGAGAAGTAAAGGTATACGTTTGTAAATCTGGAAGACTGACTGCTATTCATTTTGGTATCATATGTA
CCTTGATGAAGAGATTAGGTTGGATACTTCAAGTGAAGCCTCCCACTGGAAACAAGCTGCAGTTGTTTTAGATAA
TCCCATCCAGGTTGAAATGGGAGAGGAACCTGTACTCAGCATTAGCATCACAAAAGCAATGTCAGCATCACAGT
AAAGCAATGAAGAGCAGTTTTCCAATGAAAACCTGTGTAAATAGAGCATCAACAAGTACAAAATTCCTGTCTTAAT
TAGTGGGGGTATATAAAAATTCCTTGTAATGGTCAAATATTTTTTAAAATTGACATTAATAAAGCATATTTTAAA
AGATTCTAAATAAAAGGGTAGCATTATTATAGAAATACTGCTGCAGATTTGCTTTCTGGAAAAGGATACATCACT
AGTTTTTTAAATTAGGAAACTTCTTTTGCTCGATTTTACAGAATAGGGATTTTAAAAGTCTTATCGTTATTGACA
TGTGTAAGTAAAGCAAACTTTACTTTTGTAGGCATCTTGGCCTTTTTTCTTAAATCCAACTTGTAATTGGGAA
ACACTGAAAGGCTTCCACTGAAGACTGAGGGTTATGGTTACCTGTAAATCCAATCTTGCTTCCTTTAAATACTC
AGTGATACATCTGAAACATCTCAGGTTTTGTTTTGAGAATGCAAGCTTGAAAAAGAATTTAAGCTATAAGCTAAAT
GTAATTAACACAGTAAAGGAGTTAGGGAATACATCTTCAGGAGGCAGCATTTTTCTTGGTCTACTTTGGCAAAAG
AACATTTAAAAGCTGGTAACAAAACAAAGTTAAATTGAAGGAAGACTTAATCCTATACTATTTTTCAAAGTTTTG
ATTTGGATGTACAATAAGTACATTAATTGATCCAATTTTTACAACTTTTGAAATAAAGGAAGATCATTATTATG
CCTCCT

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FIGURE 1503

MAMSKVLSSLTPEKLYQTMDTHCQNESSGTGQSNTVQNILEPFYVLDVSEGFSVLPVIAGTLGQVKPYSSVEKD
QHRIALDLISEANHFPKETLEFWLRHVEDESAMLQRPKSDKLWSIIILDVIEPSGLIQQEIMEKAAISRCLLQSG
GKIFPQYVLMFGLLVESQTLLEENAVQGTERTLGLNIAPFINQFQVPIRVFLDLSSLPCIPLSKPVELLRLDLMT
PYLNTSNREVKVYVCKSGRLTAIPFWYHMYLDEEIRLDTSSSEASHWKQAAVVDNPIQVEMGEELVLSIQHHKSN
VSITVKQ

FIGURE 1504

[illegible]

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FIGURE 1505

MIAAQAKLVYQLNKYYTERCQARKAAIAKTIREVCKVVSVDVLKEVEVQEPRFISSLSEIDARYEGLEVISPTFEF
VVLYLNQMGVFNFDGSLPGCAVLKLS DGRKRSM SLWVEFITASGYLSARKIRS RFQTLVAQAVDKCSYRDVVK
MIADTSEVKLRIRERYVVQITPAFKCTGIWPRSA AQWPM PHIPWPGPNRVAEVKAEGFNLLSKECYSLTGKQSSA
ESDAWVLQFGEAENRLLMGGCRNKCLSVLKT LRDRHLELPGQPLNNYHMKTL LLYECEKHPRET DWDESLGDRL
NGILLQLISCLQCRRCPHYFLPNLDFQ GKPHSALESAAKQTWRLAREILTNPKSLDKL

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FIGURE 1506

CGCGACTCCCACTTCCGCCCTTTTGGCTCTCTGACCAGCACCATGGCGGTTGGCAAGAACAAGCGCCTTACGAAA
GGCGGCAAAAAGGGAGCCAAGAAGAAAGTGGTTGATCCATTTTCTAAGAAAGATTGGTATGATGTGAAAGCACCT
GCTATGTTCAATATAAGAAATATTGGAAAGACGCTCGTCACCAGGACCCAAGGAACCAAAATTGCATCTGATGGT
CTCAAGGGTCGTGTGTTTGAAGTGAGTCTTGCTGATTTGCAGAATGATGAAGTTGCATTTAGAAAATTCAAGCTG
ATTACTGAAGATGTTTCAAGGGTAAAAACTGCCTGACTAACTTCCATGGCATGGATCTTACCCGTGACAAAATGTGT
TCCATGGTCAAAAAATGGCAGACAATGATTGAAGCTCACGTTGATGTCAAGACTACCGATGGTTACTTGCTTCGT
CTGTTCTGTGTTGGTTTTACTAAAAAACGCAACAATCAGATACGGAAGACCTCTTATGCTCAGCACCAACAGGTC
CGCCAAATCCGGAAGAAGATGATGGAAATCATGACCCGAGAGGTGCAGACAAATGACTTGAAAGAAGTGGTCAAT
AAATTGATTCCAGACAGCATTGGAAAAGACATAGAAAAGGCTTGCCAATCTATTTATCCTCTCCATGATGTCTTC
GTTAGAAAAGTAAAAATGCTGAAGAAGCCCAAGTTTGAATTGGGAAAGCTCATGGAGCTTCATGGTGAAGGCAGT
AGTTCTGGAAAAGCCACTGGGGACGAGACAGGTGCTAAAGTTGAACGAGCTGATGGATATGAACCACCAGTCCAA
GAATCTGTTTAAAGTTTCAAGCTTCAAAATAGTGGCAAATAAAAAGTGCTATTTGTGATGGTTTGCTTCTGAAAAAA
AAAAAAAAAAAAAAAAAAAAA

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FIGURE 1507

MAVGKNKRLTKGGKKGAKKKVVDFFSKDWDYDVKAPAMFNIRNIGKTLVTRTQGTKIASDGLKGRVFEVSLADLQ
NDEVAFRKFKLITEDVQGKNCLTNFHGMDLTRDKMCSMVKKWQTMIEAHVDVKTTDGYLLRLFCVGFTKKRNNQI
RKTSYAQQHQQVRQIRKKMMEIMTREVQTNDLKEVVNKLIPDSIGKDIEKACQSIYPLHDVFVRKVKMLKKPKFEL
GKLMELHGEGSSSGKATGDETGAVERADGYEPPVQESV

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FIGURE 1508

AAGTCTACATGAAAAGGATGGTTTCTTGGAGCTTCCACAACTTAAAACCATGAAACATCTATTATTGCTACTAT
TGTGTGTTTTCTAGTTAAGTCCCAAGGTGTCAACGACAATGAGGAGGGTTTCTTCAGTGCCCGTGGTCATCGAC
CCCTTGACAAGAAGAGAGAAGAGGCTCCCAGCCTGAGGCCTGCCCCACCGCCCATCAGTGGAGGTGGCTATCGGG
CTCGTCCAGCCAAAGCAGCTGCCACTCAAAGAAAAGTAGAAAAGAAAAGCCCCCTGATGCTGGAGGCTGTCTTCACG
CTGACCCAGACCTGGGGGTGTTGTGTCCTACAGGATGTCAGTTGCAAGAGGCTTTGCTACAACAGGAAAGGCCAA
TCAGAAATAGTGTTGATGAGTTAAATAACAATGTGGAAGCTGTTTCCCAGACCTCCTCTTCTTCTTCCTTTTCAGTACA
TGTATTTGCTGAAAGACCTGTGGCAAAGAGGCAGAAGCAAGTAAAAGATAATGAAAATGTAGTCAATGAGTACT
CCTCAGAACTGGAAAAGCACCAATTATATATAGATGAGACTGTGAATAGCAATATCGCAACTAACCTTCGTGTGC
TTCGTTCAATCCTAGAAAACCTGAGAAGCAAAATACAAAAGTTAGAATCTGATGTCTCAGCTCAAATGGAATATT
GTCGCACCCCATGCACCTGTCTAGTTGCAATATTTCTGTGGTGTCTGGCAAAGAATGTGAGGAAATTATCAGGAAAG
GAGGTGAAACATCTGAAATGTATCTCATTCAACCTGCAGATTCTGTCAAACCGTATAGAGTATACTGTGACATGA
ATACAGAAAAATGGAGGATGGACAGTGATTGAGAACCGTCAAGACGGTAGTGTTGACTTTGGCAGGAAATGGGATC
CATATAAACAGGGATTGGAATGTTGCAACCAACACAGATGGGAAGAATTACTGTGGCCTACCAGGTGAATATT
GGCTTGGAATGATAAAATTAGCCAGCTTACCAGGATGGGACCCACAGAACTTTTGATAGAAATGGAGGACTGGA
AAGGAGACAAAGTAAAGGCTCACTATGGAGGATTCAGTGTACAGAATGAAGCCAACAAATACCAGATCTCAGTGA
ACAAATACAGAGGAACAGCCGGTAATGCCCTCATGGATGGAGCATCTCAGCTGATGGGAGAAAACAGGACCATGA
CCATTACACACGGCATGTTCTTCAGCACGTATGACAGAGACAATGACGGCTGGTTAACATCAGATCCCAGAAAAC
AGTGTTCATAAGAAGACGGTGGTGGATGGTGGTATAATAGATGTCATGCAGCCAATCCAAACGGCAGATACTACT
GGGGTGGACAGTACACCTGGGACATGGCAAAGCATGGCACAGATGATGGTGTAGTATGGATGAATTGGAAGGGGT
CATGGTACTCAATGAGGAAGATGAGTATGAAGATCAGGCCCTTCTTCCCACAGCAATAGTCCCCCAATACGTAGAT
TTTTGCTCTTCTGTATGTGACAACATTTTTGTACATTATGTTATTGGAATTTTCTTTCATACATTATATTCCTCT
AAAACCTCTCAAGCAGACGTGAGTGTGACTTTTTGAAAAAAGTATAGGATAAAATTACATTAAAATAGCACATGATT
TTCTTTTGTCTTCTTCATTTCTCTTGCTCACCAAGAAGTAACAAAAGTATAGTTTTGACAGAGTTGGTGTTCATA
ATTTAGTTCTAGTTGATTGCGAGAATTTCAAATAAGGAAGAGGGGTCTTTTATCCTTGTCGTAGGAAAACCAT
GACGGAAAGGAAAACTGATGTTTAAAAGTCCACTTTTAAAACATATTTATTTATGTAGGATCTGTCAAAGAAA
ACTTCCAAAAAGATTTATTAATTAAACCAGACTCTGTTGCAAT

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FIGURE 1509

MKRMVSWSFHKLKTMKHLLLLLLLCVFLVKSQGVNDNEEGFFSARGHRPLDKKREEAPSLRPAPPPISGGGYRARP
 AKAAATQKKVERKAPDAGGCLHADPDLGLVLCPTGCQLQEALLQQERP IRNSVDELNNNEAVSQTSSSSSQYMYL
 LKDLWQKRQKQVKDNENVVNEYSSELEKHQLYIDETVNSNIATNLRVLRSILENLRSKIQKLESVDVSAQMEYCRT
 PCTVSCNIPVVSQKECEEIIRKGGGETSEMYLIQPDSSVKPYRVYCDMNTENGWTVIQNRQDGSVDFGRKWDPYK
 QGFGNVATNTDGKNYCGLPGEYWLGNDKISQLTRMGPTTELLIEMEDWKGDVKVAHYGGFTVQNEANKYQISVNKY
 RGTAGNALMDGASQLMGENRTMTIHNGMFFSTYDRDNDGWLTS DPRKQCSKEDGGGWYNRCHAANPNGRYYWGG
 QYTWDMAKHGTDG VVWMNWKGSWYSMRKMSMKIRPFFPQQ

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FIGURE 1510

CTACATGAAAAGGATGGTTTCTTGGAGCTTCCACAACTTAAAACCATGAAACATCTATTATTGCTACTATTGTG
TGTTTTTCTAGTTAAGTCCCAAGGTGTCAACGACAATGAGGAGGTGAATTTTTTAAAGCATTATTATATTATTAG
TAGTATTATTAATATAAGATGTAACATAATCATATTATGTGCTTATTTTAATGAAATTAGCATTGCTTATAGTTA
TGAAATGGAATTGTTAACCTCTGACTTATTGTATTTAAAGAATGTTTCATAGTATTTCTTATATAAGATGGCTTA
GCTAATGTAAGATGTGTTTTCTCACTTGCTATTCTGAGTACTGTGATTTTCATTTACTTCTAGCAATACAGG

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FIGURE 1511A

GTCTAGGAGCCAGCCCCACCCTTAGAAAAGATGTTTTCCATGAGGATCGTCTGCCTAGTTCTAAGTGTGGTGGGC
ACAGCATGGACTGCAGATAGTGGTGAAGGTGACTTTCTAGCTGAAGGAGGAGGCGTGCCTGGCCCAAGGGTTGTG
GAAAGACATCAATCTGCCTGCAAAGATTGAGACTGGCCCTTCTGCTCTGATGAAGACTGGAACACAAATGCCCT
TCTGGCTGCAGGATGAAAGGGTTGATTGATGAAGTCAATCAAGATTTTACAAACAGAATAAATAAGCTCAAAAAT
TCACTATTTGAATATCAGAAGAACAATAAGGATTCTCATTGCTTGACCACTAATAATGGAATTTTGAGAGGC
GATTTTTCTCAGCCAATAACCGTGATAATACCTACAACCGAGTGTGAGAGGATCTGAGAAGCAGAATTGAAGTC
CTGAAGCGCAAAGTCATAGAAAAAGTACAGCATATCCAGCTTCTGCAGAAAAATGTTAGAGCTCAGTTGGTTGAT
ATGAAACGACTGGAGGTGGACATTGATATTAAGATCCGATCTTGTGAGGGTTCATGCAGTAGGGCTTTAGCTCGT
GAAGTAGATCTGAAGGACTATGAAGATCAGCAGAAGCAACTTGAACAGGTGATTGCCAAAGACTTACTTCCCTCT
AGAGATAGGCAACACTTACCACTGATAAAAATGAAACAGTTCCAGACTTGGTTCCCGGAAATTTTAAGAGCCAG
CTTCAGAAGGTACCCCCAGAGTGAAGGCATTAACAGACATGCCGAGATGAGAATGGAGTTAGAGAGACCTGGT
GGAAATGAGATTACTCGAGGAGGCTCCACCTCTTATGGAACCGGATCAGAGACGGAAAGCCCCAGGAACCCTAGC
AGTGCTGGAAGCTGGAACCTCTGGGAGCTCTGGACCTGGAAGTACTGGAAGCTGGAACCTCTGGGAGCTCTGGGACT
GGAGGGACTGCAACCTGGAACCTGGGAGCTCTGGACCTGGAAGTACTGGAAGCTGGAACCTCTGGGAGCTCTGGA
ACTGGAAGTACTGGAACCAAAACCCTGGGAGCCCTAGACCTGGTAGTACCGGAACCTGGAATCCTGGCAGCTCT
GAACGCGGAAGTGCTGGGCACTGGACCTCTGAGAGCTCTGTATCTGGTAGTACTGGACAATGGCACTCTGAATCT
GGAAGTTTTAGGCCAGATAGCCCAGGCTCTGGGAACGCGAGGCCTAACAAACCAGACTGGGGCACATTTGAAGAG
GTGTCAGGAAATGTAAGTCCAGGGACAAGGAGAGAGTACCACACAGAAAACTGGTCACTTCTAAAGGAGATAAA
GAGCTCAGGACTGGTAAAGAGAAGGTCACCTCTGGTAGCACAACCACCACGCGTCGTTTCATGCTCTAAAACCGTT
ACTAAGACTGTTATTGGTCTCTGATGGTCACAAAGAAGTTACCAAGAAGTGGTGACCTCCGAAGATGGTTCTGAC
TGTCCCAGGCAATGGATTTAGGCACATTGTCTGGCATAGGTACTCTGGATGGGTTCGCCATAGGCACCCTGAT
GAAGCTGCCTTCTTCGACACTGCCTCAACTGGA AAAACATTCCAGGTTTCTTCTCACCTATGTTAGGAGAGTTT
GTCAGTGAGACTGAGTCTAGGGGCTCAGAATCTGGCATCTTCACAAATACAAAGGAATCCAGTTCTCATCACCT
GGGATAGCTGAATTCCTTCCCGTGGTAAATCTTCAAGTTACAGCAACAATTTACTAGTAGCACGAGTTACAAC
AGAGGAGACTCCACATTTGAAAGCAAGAGCTATAAAATGGCAGATGAGGCCGGAAGTGAAGCCGATCATGAAGGA
ACACATAGCACCAAGAGAGGCCATGCTAAATCTCGCCCTGTGAGAGACTGTGATGATGTCTCCAAACACATCCT
TCAGGTACCCAAAGTGGCATTTTCAATATCAAGCTACCGGGATCCAGTAAGATTTTTTCTGTTTATTGCGATCAA
GAGACCAGTTTGGGAGGATGGCTTTTGATCCAGCAAAGAATGGATGGATCACTGAATTTTAACCGGACCTGGCAA
GACTACAAGAGAGGTTTCGGCAGCCTGAATGACGAGGGGGAAGGAGAATTCTGGCTAGGCAATGACTACCTCCAC
TTACTAACCCAAAGGGGCTCTGTTCTTAGGGTTGAATTAGAGGACTGGGCTGGGAATGAAGCTTATGCAGAATAT
CACTTCCGGGTAGGCTCTGAGGCTGAAGGCTATGCCCTCCAAGTCTCCTCCTATGAAGGCACTGCGGGTGATGCT
CTGATTGAGGGTTCCGTAGAGGAAGGGGCAGAGTACACCTCTCACAACAACATGCAGTTTCAGCACCTTTGACAGG
GATGCAGACCAGTGGGAAGAGAAGTGTGCAAGTCTATGGGGGAGGCTGGTGGTATAATAACTGCCAAGCAGCC
AATCTCAATGGAATCTACTACCTGGGGGCTCCTATGACCAAGGAATAACAGTCTTATGAGATTGAGAATGGA
GTGGTCTGGGTTTCTTTAGAGGGGCAGATTATCCCTCAGGGCTGTTTCGCATGAAAATTAGGCCCTTGTGACC
CAATAGGCTGAAGAAGTGGGAATGGGAGCACTCTGTCTTCTTGGCTAGAGAAGTGGAGAGAAAATACAAAAGGTA
AAGCAGTTGAGATTCTCTACAACCTAAAAAATTCCTAGGTGCTATTTTCTTATCCTTTGACTGTAGCTAAATGT
ACCTGAGACATATTAGTCTTTGAAAAATAAAGTTATGTAAGGTTTTTTTTTATCTTTAAATAGCTCTGTGGGTTTT
AACATTTTTGTAAAGATATACCAAGGGCCATTGAGTACATCAGGAAAGTGGCAGACAGAAGCTTCTCTCTGCAAC
CTTGAAGACTATTGGTTTGAGAACTTCTCTTCCCATACCAACCAAAATCATAATGCCATTGGAAAGCAAAAAGTT
GTTTTATCCATTTGATTTGAATTGTTTTAAGCCAATATTTTAAGGTAAAACCTCACTGAATCTAACCATAGCTGAC
CTTTGTAGTAGAATTTACAACCTATAATTACAATGCACAATTTATAATTACAATATGTATTTATGTCTTTTGCTA
TGGAGCAAATCCAGGAAGGCAAGAGAAACATTCTTTCTAAATATAAATGAAAATCTATCCTTTAAACTCTTCCA
CTAGACGTTGTAATGCACACTTATTTTTTTCCCAAGGAGTAACCAATTTCTTTCTAAACACATTTAAAATTTTA
AACTATTTTATGAATATTAATAAAGACATAATTACACATTAATAAACAATCTCCCAAGTATTGATTTAACTTC
ATTTTTCTAATAATCATAAACTATATTCTGTGACATGCTAATTATTATTAAATGTAAGTCGTTAGTTGAAAGCC
TCTACTAAGTATGATCTATGCTATATTCAAAATCAACCCATTTACTTTGGTCAATATTTGATCTAAGTTGCAT
CTTTAATCCTGGTGGTCTTGCTTCTGATTTTTAATTTGTATCCTTTTCTATTAAGATATATTTGTCATTTTCTC

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FIGURE 1511B

TTGAATATGTATTAAAATATCCCAAGC

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FIGURE 1512

MFSMRIVCLVLSVVGTAWTADSGEGDFLAEGGGVRGPRVVERHQSAACKDS DWPFCSDEDWNYKCPSGCRMKGLID
EVNQDFTNRINKLKNSLFYQKNNKDSHSLTTNIMEILRGDFSSANNRDNTYNRVSEDLRSRIEVLKRKVIEKVQ
HIQLLQKNVRAQLVDMKRLEVDIDIKIRSCRGSCSRALAREVDLKDYEDQQKQLEQVIAKDLLPSRDRQHPLIK
MKPVVDLVPGNFKSQLQKVPPEWKALTDMPQMRMELERPPGNEITRGGSTSYGTGSETESPRNPSSAGSWNSGSS
GPGSTGNRNPGSSSGTGGTATWKPGSSGPGSTGSWNSGSSSGTGSTGNQNPSPRPGSTGTWNPGSSSERGSAGHWTS
ESSVSGSTGQWHSESGSFRPDSPGSGNARPNNDWGTFFEEVSGNVSPGTRREYHTEKLVT SKGDKELRTGKEKVT
SGSTTTTTRRSCSKTVTKTVIGPDGHKEVTKEVVTS EDGSDCPEAMD LGTILSGIGTLDGFRHRHPDEAAFFDTAST
GKTFFPGFFSPMLGEFVSETESRGSESGIFTNTKESSSHHPGIAEFPSRGKSSSYSKQFTSSTS YNRGDSTFESKS
YKMADEAGSEADHEGTHSTKRGHAKSRPVRDCDDVLQTHPSGTQSGIFNIKLPGSSKIFSVYCDQETSLGGWLLI
QQRMDGSLNFNRTWQDYKRGFGSLNDEGEGEFWLGNDYLHLLTQRGSVLRVELEDWAGNEAYA EYHFRVGSEAEG
YALQVSSYEGTAGDALIEGSVEEGA EYTSNNMQFSTFDRDADQWEENCAEVYGGGWWYNNCQAANLNGIYYPGG
SYDPRNNSPYEIEINGVVVVSFRGADYSLRAVRMKIRPLVTQ

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FIGURE 1513

GTCTAGGAGCCAGCCCCACCCTTAGAAAAAGATGTTTTCCATGAGGATCGTCTGCCTAGTTCTAAGTGTGGTGGGC
ACAGCATGGACTGCAGATAGTGGTGAAGGTGACTTTCTAGCTGAAGGAGGAGGCGTGCGTGGCCCAAGGGTTGTG
GAAAGACATCAATCTGCCTGCAAAGATTCAGACTGGCCCTTCTGCTCTGATGAAGACTGGAATAAATAAGCTCAAAAAT
TCTGGCTGCAGGATGAAAGGGTTGATTGATGAAGTCAATCAAGATTTTACAAACAGAATAAATAAGCTCAAAAAT
TCACTATTTGAATATCAGAAGAACAATAAGGATTCTCATTCTGTTGACCACTAATATAATGGAAATTTTGAGAGGC
GATTTTTCTCAGCCAATAACCGTGATAATACCTACAACCGAGTGTGAGAGGATCTGAGAAGCAGAATTGAAGTC
CTGAAGCGCAAAGTCATAGAAAAAGTACAGCATATCCAGCTTCTGCAGAAAAATGTTAGAGCTCAGTTGGTTGAT
ATGAAACGACTGGAGGTGGACATTGATATTAAGATCCGATCTTGTGCGAGGGTCATGCAGTAGGGCTTTAGCTCGT
GAAGTAGATCTGAAGGACTATGAAGATCAGCAGAAGCAACTTGAACAGGTCATTGCCAAAGACTTACTTCCCTCT
AGAGATAGGCAACACTTACCACTGATAAAAAATGAAACCAGTTCAGACTTGGTTCCCGGAAATTTTAAGAGCCAG
CTTCAGAAGGTACCCCCAGAGTGGAAAGGCATTAACAGACATGCCGCAGATGAGAATGGAGTTAGAGAGACCTGGT
GGAAATGAGATTACTCGAGGAGGCTCCACCTCTTATGGAACCGGATCAGAGACGGAAAGCCCCAGGAACCCTAGC
AGTGCTGGAAGCTGGAACCTCTGGGAGCTCTGGACCTGGAAGTACTGGAACCGAAACCCCTGGGAGCTCTGGGACT
GGAGGGACTGCAACCTGGAAACCTGGGAGCTCTGGACCTGGAAGTACTGGAAGCTGGAACCTCTGGGAGCTCTGGA
ACTGGAAGTACTGGAACCAAAACCCCTGGGAGCCCTAGACCTGGTAGTACCGGAACCTGGAATCCTGGCAGCTCT
GAACGCGGAAGTGCTGGGCACTGGACCTCTGAGAGCTCTGTATCTGGTAGTACTGGACAATGGCACTCTGAATCT
GGAAGTTTTAGGCCAGATAGCCCAGGCTCTGGGAACGCGAGGCCTAACAACCCAGACTGGGGCACATTTGAAGAG
GTGTCAGGAAATGTAAGTCCAGGGACAAGGAGAGGTACCACACAGAAAAACTGGTCACTTCTAAAGGAGATAAA
GAGCTCAGGACTGGTAAAGAGAAGGTCACCTCTGGTAGCACAAACCACCGCTCGTTCTATGCTCTAAAACCGTT
ACTAAGACTGTTATTGGTCCTGATGGTCACAAAGAAGTTACCAAAGAAGTGGTGACCTCCGAAGATGGTTCTGAC
TGTCCTCGAGGCAATGGATTTAGGCACATTGTCTGGCATAGGTACTCTGGATGGGTTCCGCCATAGGCACCCTGAT
GAAGCTGCCTTCTTCGACACTGCCTCAACTGGAAAAACATTCCCAGGTTTCTTCTCACCTATGTTAGGAGAGTTT
GTCAGTGAGACTGAGTCTAGGGGCTCAGAATCTGGCATCTTCACAAATACAAAGGAATCCAGTTCTCATCACCCCT
GGGATAGCTGAATTCCTTCCCGTGGTAAATCTTCAAGTTACAGCAAACAATTTACTAGTAGCACGAGTTACAAC
AGAGGAGACTCCACATTTGAAAGCAAGAGCTATAAAATGGCAGATGAGGCCGGAAGTGAAGCCGATCATGAAGGA
ACACATAGCACCAAGAGAGGCCATGCTAAATCTCGCCCTGTCAGAGGTATCCACACTTCTCCTTTGGGGAAGCCT
TCCCTGTCCCCCTAGACTAAGTTAAATATTTCTGCACAGTGTTCCTATGGCCCCCTTGCAATTCCTTCTTAAGTCT
CTGTTACACGTCATTGAAACTACACTTTTTTGGTCTGTTTTTGTGCTAGACTGTAAGTTCCTTGGGGGCAGGGCC
TTTGTCTGTCTCATCTCTGTATTCCCAAATGCCTAACAGTACAGAGCCATGACTCAATAAATACATGTTAAATGG
ATGAATG

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FIGURE 1514

MFSMRIVCLVLSVVGTAWTADSGEGDFLAEGGGVRGPRVVERHQSAKDSQDWPFCSDEDWNYKCPSGCRMKGLID
EVNQDFTNRINKLKNSLFQKNNKDSHSLTTNIMEILRGDFSSANNRDNTYNRVSEDLRSRIEVLKRKVIEKVQ
HIQLLQKNVRAQLVDMKRLEVDIDIKIRSCRGSCSRALAREVDLKDYEDQQKQLEQVIAKDLLPSRDRQHPLIK
MKPVVDLVPGNFKSQLQKVPPEWKALTDMPQMRMELERPGGNEITRGGSTSYGTGSETESPRNPSSAGSWNSGSS
GPGSTGNRNPGSSGTGGTATWKPGSSGPGSTGSWNSGSSGTGSTGNQNPSPRPGSTGTWNPGSSERGSAGHWTS
ESSVSGSTGQWHSESGSFRPDSPGSGNARPNPDWGTFFEEVSGNVSPGTRREYHTEKLVTSKGDKELRGKEKVT
SGSTTTTTRSCSKTVTKTVIGPDGHKEVTKEVVTSEDGSDCPEAMD LGT LSGIGTLDGFRHRHPDEAAFFDTAST
GKTFPGFFSPMLGEFVSETESRGSESGIFTNTKESSSHHPGIAEFPSRGKSSSYSKQFTSSTS YNRGDSTFESKS
YKMADEAGSEADHEGTHSTKRGHAKSRPVIRGIHTSPLGKPSLSP

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FIGURE 1515

TGCTGACACTACAAGGCTCGGAGCTCCGGGCACTCAGACATCATGAGTTGGTCCTTGCACCCCCGGAATTTAATT
CTCTACTTCTATGCTCTTTTATTTCTCTCTTCAACATGTGTAGCATATGTTGCTACCAGAGACAACCTGCTGCATC
TTAGATGAAAGATTTCGGTAGTTATTGTCCAACCTACCTGTGGCATTGCAGATTTCTGTCTACTTATCAAACCAAA
GTAGACAAGGATCTACAGTCTTTGGAAGACATCTTACATCAAGTTGAAAACAAAACATCAGAAGTCAAACAGCTG
ATAAAAGCAATCCAACCTCACTTATAATCCTGATGAATCATCAAAACCAAATATGATAGACGCTGCTACTTTGAAG
TCCAGGATAATGTTAGAAGAAATTATGAAATATGAAGCATCGATTTTAAACACATGACTCAAGTATTCGATATTTG
CAGGAAATATATAATTCAAATAATCAAAAGATTGTTAACCTGAAAGAGAAGGTAGCCCAGCTTGAAGCACAGTGC
CAGGAACCTTGCAAAGACACGGTGCAAATCCATGATATCACTGGGAAAGATTGTCAAGACATTGCCAATAAGGGA
GCTAAACAGAGCGGGCTTTACTTTATTAAACCTCTGAAAGCTAACCAGCAATTCTTAGTCTACTGTGAAATCGAT
GGGTCTGGAAATGGATGGACTGTGTTTCAGAAGAGACTTGATGGCAGTGTAGATTTCAAGAAAACTGGATTCAA
TATAAGAAGGATTTGGACATCTGTCTCTACTGGCACAACAGAATTTTGGCTGGGAAATGAGAAGATTCATTTG
ATAAGCACACAGTCTGCCATCCCATATGCATTAAGAGTGGAACTGGAAGACTGGAATGGCAGAACCAGTACTGCA
GACTATGCCATGTTCAAGGTGGGACCTGAAGCTGACAAGTACCGCCTAACATATGCCTACTTCGCTGGTGGGGAT
GCTGGAGATGCCTTTGATGGCTTTGATTTTGGCGATGATCCTAGTGACAAGTTTTTCACATCCCATAAATGGCATG
CAGTTTCAGTACCTGGGACAATGACAATGATAAGTTTGAAGGCAACTGTGCTGAACAGGATGGATCTGGTTGGTGG
ATGAACAAGTGTACGCTGGCCATCTCAATGGAGTTTATTACCAAGGTGGCACTTACTCAAAAAGCATCTACTCCT
AATGGTTATGATAATGGCATTATTTGGGCCACTTGGAACCCCGGTGGTATTCCATGAAGAAAAACCACTATGAAG
ATAATCCCATTCAACAGACTCACAATTGGAGAAGGACAGCAACACCACCTGGGGGGAGCCAAAACAGGCTGGAGAC
GTTTAAAGACCGTTTCAAAGAGATTTACTTTTTTAAAGGACTTTATCTGAACAGAGAGATATAATATTTTTCC
TATTGGACAATGGACTTGCAAAGCTTCACTTCATTTTAAAGACAAAAGACCCCATGTTGAAAACCTCCATAACAGT
TTTATGCTGATGATAATTTATCTACATGCATTTCAATAAACCTTTTGTTCCTAAGACT

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FIGURE 1516

MSWSLHPRNLILYFYALLFLSSTCVAYVATRDNCCILDERFGSYCPTTCGIADFLSTYQTKVDKDLQSLEDILHQ
VENKTSEVKQLIKAIQLTYNPDESSKPNMIDAATLKSRIMLEEIMKYEASILTHDSSIRYLQEIYNSNNQKIVNL
KEKVAQLEAQCQEPCKDTVQIHDITGKDCQDIANKGAKQSGLYFIKPLKANQQFLVYCEIDGSGNGWTVFQKRLD
GSVDFKKNWIQYKEGFGHLSPGTTEFWLGNEKIHLISTQSAIPYALRVELEDWNGRTSTADYAMFKVGPEADKY
RLTYAYFAGGDAGDAFDGFDGDDPSDKFFTSHNGMQFSTWDNDNDKFEGNCAEQDGSWWMNKCHAGHLNGVYY
QGGTYSKASTPNGYDNGIIWATWKTRWYSMKKTTMKIIPFNRLTIGEGQQHHLGGAKQAGDV

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FIGURE 1517

TGCTGACACTACAAGGCTCGGAGCTCCGGGCACTCAGACATCATGAGTTGGTCCTTGCACCCCCGGAATTTAATT
CTCTACTTCTATGCTCTTTTATTTCTCTCTTCAACATGTGTAGCATATGTTGCTACCAGAGACAACCTGCTGCATC
TTAGATGAAAGATTTCGGTAGTTATTGTCCAACCTGCTGGCATTGCAGATTTCTGTCTACTTATCAAACCAAA
GTAGACAAGGATCTACAGTCTTTGGAAGACATCTTACATCAAGTTGAAAACAAAACATCAGAAGTCAAACAGCTG
ATAAAAGCAATCCAACCTCACTTATAATCCTGATGAATCATCAAACCAAATATGATAGACGCTGCTACTTTGAAG
TCCAGGATAATGTTAGAAGAAATTATGAAATATGAAGCATCGATTTTAACACATGACTCAAGTATTCGATATTTG
CAGGAAATATATAATTCAAATAATCAAAAGATTGTTAACCTGAAAGAGAAGGTAGCCAGCTTGAAGCACAGTGC
CAGGAACCTTGCAAAGACACGGTGCAAATCCATGATATCACTGGGAAAGATTGTCAAGACATTGCCAATAAGGGA
GCTAAACAGAGCGGGCTTTACTTTATTAAACCTCTGAAAGCTAACCAGCAATTCTTAGTCTACTGTGAAATCGAT
GGGTCTGGAAATGGATGGACTGTGTTTCAGAAGAGACTTGATGGCAGTGTAGATTTCAAGAAAACTGGATTCAA
TATAAAGAAGGATTTGGACATCTGTCTCCTACTGGCACAACAGAATTTTGGCTGGGAAATGAGAAGATTCATTTG
ATAAGCACACAGTCTGCCATCCCATATGCATTAAGAGTGGAAGTGGAAAGACTGGAATGGCAGAACCAGTACTGCA
GACTATGCCATGTTCAAGGTGGGACCTGAAGCTGACAAGTACCGCCTAACATATGCCTACTTCGCTGGTGGGGAT
GCTGGAGATGCCTTTGATGGCTTTGATTTTGGCGATGATCCTAGTGACAAGTTTTTCACATCCCATATGGCATG
CAGTTCAGTACCTGGGACAATGACAATGATAAGTTTGAAGGCAACTGTGCTGAACAGGATGGATCTGGTTGGTGG
ATGAACAAGTGTACGCTGGCCATCTCAATGGAGTTTATTACCAAGGTGGCACTTACTCAAAGCATCTACTCCT
AATGGTTATGATAATGGCATTATTTGGGCCACTTGGAACCCCGGTGGTATTCCATGAAGAAAACCACTATGAAG
ATAATCCCATTCAACAGACTCACAATTGGAGAAGGACAGCAACACCACCTGGGGGGAGCCAAACAGGTCAGACCA
GAGCACCTGCGGAAACAGAATATGACTCACTTTACCCTGAGGATGATTTGTAGAAAATTAAGTCTAACTTCTA
TTGACCCACAAAGTTTCAGAAATCTCTGAAAGTTTCTTCCCTTTTTCTCTTACTATATTTATTGATTTCAAGTC
TTCTATTAAGGACATTTAGCCTTCAATGGAAATTAACACTCATTAGGACTGTATTTCCAAATTACTGATATCAG
AGTTATTTAAAATTGTTTATTTGAGGAGATAACATTTCAACTTTGTTCTAAATATATAATAATAAATGATTG
ACTTT

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FIGURE 1518

MSWSLHPRNLILYFYALLFLSSTCVAYVATRDNCCILDERFGSYCPTTCGIADFLSTYQTKVDKDLQSLLEDILHQ
VENKTSEVKQLIKAIQLTYNPDESSKPNMIDAATLKSRIMLEEIMKYEASILTHDSSIRYLQEIYNSNNQKIVNL
KEKVAQLEAQCQEPCKDTVQIHDI TGKDCQDIANKGAKQSGLYFIKPLKANQQFLVYCEIDGSGNGWTVFQKRDL
GSVDFKKNWIQYKEGFGHLSPTGTTEFWLGNEKIHLISTQSAIPYALRVELEDWNGRTSTADYAMFKVGPEADKY
RLTYAYFAGGDAGDAFDGFDGDDPSDKFFTSHNGMQFSTWDNDNDKFEGNCAEQDGSWWMNKCHAGHLNGVYY
QGGTYSKASTPNGYDNGIIWATWKTRWYSMKKTTMKIIPFNRLTIGEGQQHHLGGAKQVRPEHPAETEDSLYPE
DDL

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FIGURE 1519

AGCAGCCGCCGCCAGACAGCCGCCGCCGCCACCCGTTGCGCCGTCCCCCTGCCGCATTACAATGCAGCCTGCTTT
TGCAAAGTGGTACGATCGAAGGGACTGTGTCTTCACTGAATCTTGTGTTGAAGACAATAAGGATGTTAATGTAAA
TTTTGAAAAATCCAACTTACATTCAGTTGTCTTGGAGGAAGTGATAATTTTAAGCATTTAAATGAAATTGGTCT
TTTTTACTCTATTGATCCAAATGATTCCAAGCATAAAAGAACGGACAGATCAATTTTATGTTGTTTACGAAAAGG
AGAATCTGGCCAGTCATGGCCAAGGTTAACAAAAGAAAGGGCAAAGATGATGAACAACATGGGTGGGGATGAGGA
TGTAATTTTACCAGAAGTAGATGAAGCAGGTGATGATTCACAAGACAGTGATGATGAAAAAATGCCAGATCTGGA
GTAAGAAATATTTATCACCTGGATTTTGAGAAAGAAA

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FIGURE 1520

ATGGTAACCAATGTCAACCAGAATACAAGTGGAGCTCTGTCTTTAAATCAACTGCCACACACTCACATGTCGAAG
ATCCAAATACCCCTTGCAAATGCCTATCCCATTGCCAACGCTGATGCCCAAGGATGCACACACTGGCTGCGTGGG
CTGCCCTCAGAAAGATGTGCCCAGGAGGAAAATTACTCCTGGGCACCCAGTACAATTACAGTGGATCAGAGGATT
GCACTGAAAGAGGTGCAAGCTACCTGGTTACTTCACAAATATCTCTACCATACTACTATTATCGACTCAACATT
AGGGTTGTCTGTGCTCAGGACACCAGAGTAAATACTGCCCCAATTCCAGAGATGTACTCCTTCTACATGTGCCCA
TGCTTCAGGCCTGAGCTCCGTGGCTACTCCATGGACACATCACTTATCAAACACCAGTGCAACCACCCTGCAAG
CAAGCCAACAGGCCAGATTCACTGCCAAGAGAGATTCTGGCAATCTTAGCAGAAGAACTCAACAAAACAAAGCCC
ATCTGGACCAGAAATCCAGATGATATTACTAATGAGGAGTACAGAGAATTCTACAAGAGCTTGACTAATGACTGG
GAAGATCACTTAAAGAAAAAGAACAAATATCAAATTGTATGTATGCAGAGTTTTTCATCACGGATAACTGTGAGGAG
CTAATCCCTGAATACCTGAACTTCATTAGAGTGCTGGTAGACTCGGAGGATCTCCCTCTAAATATTTCCCATAAG
ATGTTACAACAAAGCAAAATTTTGAAAGTTATCAGGAAGAATTTGGTCAAAAAATGCTTAGAACTCTTTACTGAA
CTGGCAGAAGATAAAGAGAACTACAAGAAGTTCTATGAGCAGTTCTCTGAAAACATAAAGCTTGGAATACATGAA
GACTCTCAAAATCAGAAGAAGCTTTCAGAGCTGTTAAGGTACTACACATCTGCCTCTGGTGATGAGATGGTTTCT
CTCAAGGACTACTGCACCAGAATAAGGAAAAGTAGAAATGAATCTTAA

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FIGURE 1521

MVTNVNQNTSGALSLNQLPHTHMSKIQIPLANAYPIANADAQGCTHWLRGLPSERCARGGKLLLGTSTITVDQRI
ALKEVQATWLLHKYLYHTYYYRLNIRVVCAQDTRVNTAPIPEMYSFYMCPCFRPELRGYSMDTSLIKHQC�HHCK
QANRPDSVPREILAILAEELNKTPIWTRNPDDITNEEYREFYKSLTNDWEDHLKKKNNIKLYVCRVFITDNCEE
LIPEYLNFIIRVLVDSEDLPLNISHKMLQQSKILKVIRKNLVKKCLELFTELAEDKENYKKFYEQFSENIKLGIHE
DSQNQKKLSELLRYYTSASGDEMVS�KDYCTRIRKTRNES

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FIGURE 1522

GATGTGGCCCGTGGCCTAGCTCGTCAAGTTGCCGTGGCGCGGAGAACTCTGCAAAACAAGAGGCTGAGGATTGCG
TTAGAGATAAACAGTTTACGCCGGAGCCCCGTGAGGGAAGCGTCTCCGTTGGGTCCGGCCGCTCTGCGGGACTC
TGAGGAAAAGCTCGCACCAAGGTGGACGCGGATCTGTCAACATGGGTAAAGGAGACCCCAACAAGCCGCGGGGCAA
AATGTCCTCGTACGCCCTTCTTCGTGCAGACCTGCCGGGAAGAGCACAGAAGAAACACCCGGACTCTTCCGTCAA
TTTCGCGGAATTCTCCAAGAAGTGTTCGGAGAGATGGAAGACCATGTCTGCAAAGGAGAAGTCGAAGTTTGAAGA
TATGGCAAAAAGTGACAAAGCTCGCTATGACAGGGAGATGAAAAATTACGTTCCCTCCCAAGGTGATAAGAAGGG
GAAGAAAAGGACCCCAATGCTCCTAAAAGGCCACCATCTGCCTTCTTCCTGTTTTGCTCTGAACATCGCCCCAA
GATCAAAAGTGAAACACCTGGCCTATCCATTGGGGATACTGCAAAGAAATTGGGTGAAATGTGGTCTGAGCAGTC
AGCCAAAGATAAACAACCATATGAACAGAAAGCAGCTAAGCTAAAGGAGAAATATGAAAAGGATATTGCTGCATA
TCGTGCCAAGGGCAAAAGTGAAGCAGGAAAGAAGGGCCCTGGCAGGCCAACAGGCTCAAAGAAGAAGAACGAACC
AGAAGATGAGGAGGAGGAGGAGGAAGAAGAAGATGAAGATGAGGAGGAAGAGGATGAAGATGAAGAAATAATGGC
TATCCTTTAATGATGCGTGTGGAATGTGTGTGTGTGCTCAGGCAATTATTTTGCTAAGAATGTGAATTCAAGTGC
AGCTCAATACTAGCTTCAGTATAAAAACTGTACAGATTTTGTATAGCTGATAAGATTCTCTGTAGAGAAAATAC
TTTTAAAAATGCAGGTTGTAGCTTTTTGATGGGCTACTCATAAGTTAGATTTTACAGCTTCTGATGTTGAATG
TTCCTAAATATTTAATGGTTTTTTAATTTCTGTGTGTATGGTAGCACAGCAAACCTGTAGGAATTAGTATCAAT
AGTAAATTTTGGGTTTTTTAGGATGTTGCATTTTCGTTTTTTAAAAAAATTTTGTAATAAAATTATGTATATTA
TTTCTATTGTCTTTGTCTTAATATGCTAAGTTAATTTTCACTTTAAAAAAGCCATTTGAAGACCAAAAAAAAAAA
AA

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FIGURE 1523

MGKGDPNKPRGKMSSYAFFVQTCREEHKKKHPDSSVNFAEFSKKCSERWKTMSAKEKSKFEDMAKSDKARYDREM
KNYVPPKGDKKGKKKDPNAPKRPPSAFFLFCSEHRPKIKSEHPGLSIGDTAKKLGEMWSEQSAKDKQPYEQKAAK
LKEKYEKDIAAYRAKGKSEAGKKGPGRPTGSKKKNEPEDEEEEEEEEEDEEEEEDEEE

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FIGURE 1524

CAGCCCCCTCTGCGGCTGCCGGGCGGGCCCGGGCGCCCGGGGGCTGGGGGGTGGGGGGTGGGGGAGGACGCCGAG
CGCTGAGGCAGGGGCCCCGGGCGGAGGGCGCGGCGGGGCTGCGCGCACGCTGGGGCGCGTGGAGGGGCGCGGAGGG
CGAAATGAGTCTGGTAGGTGGTTTTTCCCCACCACCCGGTGGTGCACCACGAGGGCTACCCGTTTGCCGCCGCCGC
CGCCGCAGCTGCCGCCGCCGCCGAGCCGCTGCAGCCATGAGGAGAACCCCTACTTCCATGGCTGGCTCATCGG
CCACCCCGAGATGTCGCCCCCGACTACAGCATGGCCCTGTCCTACAGCCCCGAGTATGCCAGCGGCGCCGCCGG
CCTGGACCACTCCCATACGSGGGGGGTGCCGCCGGGCGCCGGGCCCCCGGGCCTGGGGGGGCGCGCCCGGTGAA
GCGCCGAGGCACCGCCAACCGCAAGGAGCGGCGCAGGACTCAGAGCATCAACAGCGCCTTCGCCGAAGTGC CGA
GTGCATCCCCAACGTACCCGCCGACACCAAATCTCCAAATCAAGACCCTGCGCCTGGCCACCAGCTACATCGC
CTACCTCATGGACCTGCTGGCCAAGGACGACCAGAATGGCGAGGCGGAGGCCTTCAAGGCAGAGATCAAGAAGAC
CGACGTGAAAGAGGAGAAGAGGAAGAAGGAGCTGAACGAAATCTTGAAAAGCACAGTGAGCAGCAACGACAAGAA
AACCAAAGGCCGGACGGGCTGGCCGCAGCACGTCTGGGCCCTGGAGCTCAAGCAGTGAGGAGGAGGAGAAGGAGG
AGGAGGAGAGCGCGAGTGAGCAGGGGCCAAGGCGCCAGATGCAGACCCAGGACTCCGGAAAAGCCGTCCGCGCTC
CGCTCTGAGGACTCCTTGCAATTTGGAATCATCCGGTTTATTTATGTGCAATTCCTTCCCCCTCTTTGACCCCC
TTTGAGGCATCTGCTCCCCGTCTCCCCCTCAAAAAAAAAAGTGATATTTGAAGAAAAGCATTCCATATTTTAAT
ACGAAGAGGACACTCCCGTGTGCAGGCCGAATCAGACCCGGCGTGGGCGAATTCAGAAGTGCCCAGGGAGAGACA
AGCTAGAGGCTCTGCGGACTTCTGCGGGCGGCTGACAACGCGAGGGCGAGGGGAGAAAGCCATCAGGTCCTAGAC
GTGGAAGAAAGGAGCCTACCAAAGTGTTGGAGTAAAC

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FIGURE 1525

TTCACTATTAAAATATTTTCCCCCAAGTCTCAAATATTGAAGAATCTCTAACCAGAAGGCACAGATCATTTCATG
GGGATGTATAACCGAAACCAGTCCTCTCCACCGCCTGGGGATCTTCACTTTTCGCAGTCTACGACTGCCTGTGACT
CCAGAAAGACAAACTGCAGATTGGCCAAGCTGCCTGAAGACCCAGCCCCGACAGCGATGCCTGTCAGCCCGCGTCG
CCCACCAGGGCAGCTGCTCTCCCAACTCGCATGGGGGGCACCACCCGCTCGGTGCCCTAGAGCTGAGCGCAGC
CGCGGCTCCACGGGGATCGCCAGGGCCTCAGCCCTCGCGGCCGGCGGCGGGAGTGTTCGGGGGCAGGGACCAG
AGCGCGATCAGAGCGGCCACCCCGATTTAGGTCGCCAGCTTTCCAGTCACTGCGATGGCCACTGGGGCGCCCCCT
TCCATCCTGGTTAAATTCTCATTGTGATCCCCAGCCCTCTTCTCGGTTCCCCACACCCAGGAGGCCGTTCTCCG
CCGCTCAGGCTGGGAGAGGTCACCGCTCCGGGCAGGGTGGACCCCCAGCTCCGTCTCGGAGGACCTTTCGCCGGA
GGCGAGCAGGAAGGGGTAAACCATGAGCCTCCACCCCTCACCTCCCAGACCCTGGTGCCGGGGCTAAGGCCTCCGC
TTCCCTCCTGAGGTCTCATTAGGAAACCCTCACCGCTATTTTCAACATTTCTCAATCAAGTGCCTTTAAATAGA
GCTGCACAAACAGATTGGCGGCAAAAGCGTAGATCTTGTACGATTGAGACCAATCCAGTATTTACGCCTTGTTT
GCTTTGCAATTACGGGTGGCTTGTGGCTACGGTGCCACCGGGGCAAATCTGCAGCCGCTCGCTTCTCCTCTGC
GCTCCGGGCGGGTGGAGGAAGCGACCCGCGGAGTCACTGCAGGGAGGAGAGGGGGACGCGCGGGGGGAGGCGG
CGGAGGGCGGAGGAGACTCGCTTGACCCCCAGGGC

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FIGURE 1526

GGAGGCAAACAACCCATCTCTCTTGGAGAATCCACACTTCGTTTCTTCTAGGTCCAGCCTAAATGTTACCTCCTC
CAGGGAGCCTTTCCAGATACTGCTTCTCCTCTCTCCCCAACTCCCTCCCACAAATGAAGTTTCTCTTCTGAAT
TCCTTGCTGGTACTGTCACTTATATTCTTTTGGGTAGATCTCTGGGCATGCATATGTCACCTCCTGTGACTGTGG
GTTTCTTGACAACCTAATCAATGCATTGAACAAAGGAGATGTTTAGACAACCCATATAAAATGAATAAGAGAAAT
AGGGTGAATACCGTCTACCCCAATTGCAATCAGATTAGTTTCTTTATTTTGAAAACGATTAGAACTAGTAGAGG
AGTTAGATGTGGCCCACTAGGGAACAAATTTTCATCTCCAAGCCGTCCTCTGGCTCGATCGGGTCTGCACTGGGT
CTGCATCAACTTGCGCTGGCTCAGAGGGAGGCTCAGCCCCAGCCTGGCCTTCTGGTGCCCACTCCCAACATCCT
GAGCAGGGCCGACTCTAGGCACCCACGATTAGCTGAGTGATCTAGGGCAAGGACCTAGGCGTCTCTAAGTCTTA
GTTTCCCCATCTGAACAATGTGATAATGACACGTACCTGGGGTGGGCAGGCTAGAGTAAATGGGAAAATCAAAG
CGCCAGCCAGAGCGGGTCGCACTGTTAGTTCTGTATTTTCTCCTCCTGCCTCTGGTTTCTTCCGTTCCGTTCTA
GCTGCCTGAAGACCCAGCCCGACAGCGATGCCTGTAGCCCGCGTCGCCCACCAGGGCAGCTGCTCTCCCAACTC
GCATGGGGGGCACCACCCCGCCTCGGTGCCCTAGAGCTGAGCGCAGCCGCGCTCCACGGGGATCGCCAGGGCCT
CAGCCCTCGCGGCCGCGCGCGGGAGTGTTGCGGGGCAGGGACCAGAGCGCGATCAGAGCGGCCACCCCGATT
TAGGTGCGCCAGCTTTCAGTCACTGCGATGGCCACTGGGGCGCCCCCTTCCATCCTGGTTAAATTCTCATTGTGAT
CCCCAGCCCTCTTCTCGGTTCCCCACACCCAGGAGGCCGTTTCTCCGCCGCTCAGGCTGGGAGAGGTCACCGCTC
CGGGCAGGGTGGACCCCCAGCTCCGTCTCGGAGGACCTTTCGCCGGAGGCGAGCAGGAAGGGGTTAACCATGAGC
CTCCACCCCTCACCTCCCAGACCCCTGGTGCCGGGCTAAGGCCTCCGCTTCCCTCCTGAGGTCTCATTAGGAAACC
CTCACCGCTATTTTCAACATTTCTCAATCAAGTGCCTTTAAATAGAGCTGCACAAACAGATTGGCGGCAAAAGC
GTAGATCTTGTCACGATTGAGACCAATCCAGTATTTACAGCCTTGTTTGCTTTGCAATTACGGGTTGGCTTGTTGGC
TACGGTGCCACCGGGGCAAATCTGCAGCCGCTCGCTTTCTCCTCTGCGCTCCGGGCGGGTGGAGGAAGCGACCCG
CGGAGTCACTGCAGGGAGGAGAGGGGGACGCGCGCGGGGGAGGCGGCGGAGGGCGGAGGAGACTCGCTTGCAAC
CCAGGGCCGCGGGCACGCAGAGCTGTGTTGAAGGACATACTTTTACAGGTTCTTGACAGTCACTGAGCTATACGCA
ATAATAAAGTGCCTGATTGCGGTGTGGAAACCAAGTGTCGTGTCCTTACCGGCTTCCTTTTCTGTCCACCTTCCCT
CTCTCTTCTACCTCCGTCTCGCTTTTCTTTCAGTGATGTTAGCGGTTTGCTGGATTTCCTTCTCCCTCGCTGTT
CAACTGCTAGCATGATTTGTTACATTTTCCACAGCTGTTTATTCTTGTTGACTTTTTGTACAAAGTCACTTTAA
ATCTGCTGCAGAAAGAATAAAGCACCTAGCCCTTTGGATGGACTCCTGCAGGCGTGTGGCTGTCCCTGGCCCACT
TTTAATTCTTTGGAGATGGCTCTTCTGTGTAAATCAGCTGCTGGGTGCGTTCGGTCACCTCGTAGGCCAGCCTAG
TTTGTATCAGCAGAACAGTAGTGGAAGTCACTCAGGTCGTAAGCCTTATATTTACAGACAATTAAATCTTGGCT
GCTGTTGAACAAAAGTGAATATTTACTTTGTTCTATACCGAGAAGCACTTTTAAAGT

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FIGURE 1527

MWIMTRTWGGQARVNGKIKAPARAGRTVSSCIFSSCLWFLPFRSSCLKTQPDSDACQPASPTRAAALPTRMGTT
PPRCpraersrgstgiarasalaaggagvlrgrdqsairaATPDLGRQLSSHCDGHWGAPSILVKFSL

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FIGURE 1528

GAAGGAGGAGGTGGCAAATCACTTATAAATGGTGCTGAAGCAGGACCCGAAGCCTAAATTCAGGAGGGTGAGCG
AGTGCTGTGGTTTCATGGGCCTCTGCTTTATGATGCAAAGTGTGTAAAGGTTGCCATAAAGGACAAAAAGTGAAA
TACTTTATACATTACAGTGGTTGGAATAAAAATTGGGATGAGTGGGTTCCGGAGAGCAGAGTACTCAAATATGTG
GACACCAATTTGCAGAAACAGCGAGAACTTCAAAAAGCCAATCAGGAGCAGTATGCAGAGGGGAAGATGAGATGG
GCTGCCCCAGGAAAGAAGACATCTGGTCTGCAACAGAAAAATATTGAAGTGAAAACAAAAAAGAACAAACAGAAA
ACACCTGGAAATGGAGATGGTGGCAGTACCAGTGAGACTCCCCAGCCTCCTCGAAAGAAAAGGGCCAGGTAGAT
CCTACTGTTGAAAATGAGGAAACATTCATGAACAGAGTTGAAGTTAAAGTAAAGATTCTTGAAGAGCTAAACCA
TGGCTTGTTGATGACTGGGACTTAATTACCAGGCAAAAACAGCTCTTCTATCTTCTGCGGAGAAGAATGTGGAT
TCCATTCTTGAGGACTATGCAAATTACAAGAAATCTCATGGAAACACAGATAATAAGGAGTATGCAGTTAATGAA
GTTGTGGCAGGGATAAAAGAATACTTCAACCTAATGTTGGGCACCCAGCTACTCAACAAATTTGAGAGACCACAG
TATGCCGAAATTCTTGCAGATTGTCCCGATGCACCCATGTCCCAGGTGTATGGAGTGCCACATCTCCTGAGATTA
TCTGTACAAATTGGAGCAATGTTGGCCTATACACCTCTGAATGAGAAGAGCCTTGCTTTATTACTCAATTATCTT
CACGATTTCTTAAAGTACCTGGCAAAGAATTCTGCAACTTTGTTTAGTGCCAGCGATTATGAAGTGGCTCTTCCT
GAGTACCATCGGAAAGCTGTGTGAGAGGCACTCTCACTCACTTATGTCTGGATCTCCATAAACACATTTTTGTTC
TTAGTCTATCTCTTGTACAAACGATGTGCTTTGAAGATGTTAGTGTATAACAATTGATGTTTGTCTTCTGTTTGA
TTTTAAACAGAGAAAATAAAAGGGGTAATAGCTCCTTTTCTCTTTTTTTTTTTTTTTTTTTCATTTCAAAGTTGCTG
CCAGTGTTTTCAATGATGGACAACACAGGGATATGCTGTAGAGTGTTTTATTGCCTAGTTGACAAAGCTGCTTTT
GAATGCTGGTGGTTCTATTCTTTAACACTATGCATTTTTATAATACGTGTTAATGCTACATGACAAAATGCTCT
GATTCCTAGTGCCAAAGGTTCAATTCAGTGTATATAACTGAATACACTCATCCATTTGTGCTCCTTTTTTTTTTT
AATGGTGCTTAAAGTAAAGAGCCCATCCTTTGCAAGTCATCCATGTTGCTACTTAGGCATTTTATCTTGGCTCAA
ATTGTTGAAGAATGGCTTGTTTCACAGTTTTTGTATTTGTGTCTAATGCACGTTTTAACATGATAGATGCAATGC
ATTGTGTAGCTACTTTTCTGAAAAGTCAATCTTTTAGGAATTGTTTTTCAGATCTTCATTAAATTTTTTCCTTA
AATTC

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FIGURE 1529

MRWAAPGKKTSGLOQKNIEVKTKKNKQKTPGNGDGGSTSETPQPPRKKRAQVDPTVENEETFMNRVEVKVKIPEE
LKPWLVDWDLITRQQLFYLPAEKNVDSILEDYANYKKSHGNTDNKEYAVNEVVAGIKEYFNLMLGTQLLNKFE
RPQYAEILADCPDAPMSQVYGVPHELLRLSVQIGAMLAYTFLNEKSLALLLNHLHDFLKYLAKN SATLFSASDYEV
ALPEYHRKAV

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FIGURE 1530A

CTGGGCGGCCGGGCGCGGGGAGAGGGCGCGGGAGCGGCTCGTGCGGCAGGTACCATGCGGACGCGCGAGCCCCGGC
GAGGGCCCCGGCAGGCCCCGGTCCCTGCTCGGGGGCGCGCTGAGACGGCGGGTGAGCTCCACGAGAGCGCCGTCGC
CACTTCGGGGCCAACATTTGCGATTCCCCGACAGTTAAGCAATGGGGAGACATTTGGCTTTGCTCCTGCTTCTGCTCC
TTCTCTTCCAACATTTTGGAGACAGTGATGGCAGCCAACGACTTGAACAGACTCCTCTGCAGTTTACACACCTCG
AGTACAACGTCACCGTGCAGGAGAACTCTGCAGCTAAGACTTATGTGGGGCATCCTGTCAAGATGGGTGTTTACA
TTACACATCCAGCGTGGGAAGTAAGGTACAAAATTGTTTCCGGAGACAGTGAAAACCTGTTCAAAGCTGAAGAGT
ACATTCTCGGAGACTTTTGTCTTCTAAGATAAGGACCAAGGAGGAAATACAGCTATTCTTAATAGAGAAGTGA
AGGATCACTACACATTGATAGTGAAAGCACTTGAAAAAATACTAATGTGGAGGCGCGAACAAGGTGAGGGTGC
AGGTGCTGGATACAAATGACTTGAGACCGTTATTCTCACCACCTCATACAGCGTTTCTTTACCTGAAAAACACAG
CTATAAGGACCAGTATCGCAAGAGTCAGCGCCACGGATGCAGACATAGGAACCAACGGGGAATTTTACTACAGTT
TTAAAGATCGAACAGATATGTTTGCTATTACCCCAACCAGTGGTGTGATAGTGTTAACTGGTAGACTTGATTACC
TAGAGACCAAGCTCTATGAGATGGAATCCTCGCTGCGGACCGTGGCATGAAGTTGTATGGGAGCAGTGGCATCA
GCAGCATGGCCAAGCTAACGGTGCACATCGAACAGGCCAATGAATGTGCTCCGGTGATAACAGCAGTGACATTGT
CACCATCAGAACTGGACAGGGACCCAGCATATGCAATTGTGACAGTGGATGACTGCGATCAGGGTGCCAATGGTG
ACATAGCATCTTTAAGCATCGTGGCAGGTGACCTTCTCCAGCAGTTTAGAACAGTGAGGTCCTTTCCAGGGAGTA
AGGAGTATAAAGTCAAAGCCATCGGTGGCATTGATTGGGACAGTCATCCTTTCCGGCTACAATCTCACACTACAGG
CTAAAGATAAAGGAACCTCGCCCCAGTTCTCTTCTGTTAAAGTCATTACAGTACTTCTCCACAGTTCAAAGCCG
GGCCAGTCAAGTTTGAAAAGGATGTTTACAGAGCAGAAATAAGTGAATTTGCTCCTCCCAACACACCTGTGGTCA
TGGTAAAGGCCATTCTGCTTATTCCCATTTGAGGTATGTTTTTAAAGTACACCTGGAAAAGCTAAATTCAGTT
TAAATTACAACACTGGTCTCATTTCTATTTTAGAACCAGTTAAAGACAGCAGGCAGCCATTTTGAACCTGAAG
TAACAACAAGTGACAGAAAAGCGTCCACCAAGGTCTTGGTGAAAGTCTTAGGTGCAAATAGCAATCCCCCTGAAT
TTACCCAGACAGCGTACAAAGCTGCTTTTGATGAGAACGTGCCATTGGTACTACTGTGATGAGCCTGAGTGCCG
TAGACCCTGATGAGGGTGAGAACGGGTACGTGACATACAGTATCGCAAATTTAAATCATGTGCCGTTTGCGATTG
ACCATTTCACTGGTGCCGTGAGTACGTGAGAAAACCTGGACTACGAACTGATGCCTCGGGTTTATACTCTGAGGA
TTCGTGCATCAGACTGGGGCTTGCCGTACCGCCGGGAAGTCGAAGTCCTTGCTACAATTACTCTCAATAACTTGA
ATGACAACACACCTTTGTTTGAGAAAATAAATTGTGAAGGGACAATTTCCAGAGATCTAGGCGTGGGAGAGCAAAA
TAACCACTGTTTCTGCTATTGATGCAGATGAACCTTCAGTTGGTACAGTATCAGATTGAAGCTGGAAATGAACCTGG
ATTTCTTTAGTTTAAACCCCAACTCGGGGGTATTGTCATTAAAGCGATCGCTAATGGATGGCTTAGGTGCAAAGG
TGTCTTTCCACAGTCTGAGAATCACAGCTACAGATGGAGAAAATTTGCCACACCATTATATATCAACATAACAG
TGGCTGCCAGTCACAAGCTGGTAAACTTGCAGTGTGAAGAGACTGGTGTGGCAAAATGCTGGCAGAGAAGCTCC
TGCAGGCAATAAATTACACAACAGGGAGAGGTGGAGGATATTTTCTTCGATTCTCACTCTGTCAATGCTCACA
TACCGCAGTTTAGAAGCACTCTTCCGACTGGTATTCAGGTAAAGGAAAACCAGCCTGTGGGTTCAGTGTAATTT
TCATGAACCTCACTGACCTTGACACTGGCTTCAATGGAATACTGGTCTATGCTGTTTCTGGAGGAAATGAGGATA
GTTGCTTCATGATTGATATGGAACAGGAATGCTGAAAATTTTATCTCCTCTTGACCGTGAAACAACAGACAAAT
ACACCCTGAATATTACCGTCTATGACCTTGGGATACCCAGAAAGGCTGCGTGCGCTCTTCTACATGTCGTGGTTG
TCGATGCCAATGATAATCCACCCGAGTTTTTACAGGAGAGCTATTTTGTGGAAGTGAGTGAAGACAAGGAGGTAC
ATAGTGAAATCATCCAGGTTGAAGCCACAGATAAAGACCTGGGGCCCAACGGACACGTGACGTACTCAATTGTTA
CAGACACAGACACATTTTCAATTGACAGCGTGACGGGTGTTGTTAACATCGCACGCCCTCTGGATCGAGAGCTGC
AGCATGAGCACTCCTTAAAGATTGAGGCCAGGGACCAAGCCAGAGAAGAGCCTCAGCTGTTCTCCACTGTGCTTG
TGAAAGTATCACTAGAAGATGTTAATGACAACCCACCTACATTTATTCCACCTAATTATCGTGTGAAAGTCCGAG
AGGATCTTCCAGAAGGAACCGTCATCATGTGGTTAGAAGCCCCACGATCCTGATTTAGGTGAGTCTGGTCAGGTGA
GATACAGCCTTCTGGACCACGGAGAAGGAACTTCGATGTGGATAAACTCAGTGGAGCAGTTAGGATCGTCCAGC
AGTTGGACTTTGAGAAGAAGCAAGTGATAATCTCACTGTGAGGGCCAAAGACAAGGGAAAGCCAGTTTCTCTGT
CTTCTACTTGCTATGTTGAAGTTGAGGTGGTTGATGTGAATGAGAACCCTGCACCCACCCGTGTTTTCCAGCTTTG
TGGAAAAGGGGACAGTGAAAGAAGATGCACCTGTTGGTTTATTGTTAATGACGGTGTGCGCTCATGATGAGGACG
CCAGAAGAGATGGGGAGATCCGATACTCCATTAGAGATGGCTCTGGCGTTGGTGTTCAAAATAGGTGAAGAGA
CAGGTGTCATAGAGACGTGAGATCGACTGGACCGTGAATCGACCTCCCATTTATGGCTAACAGTCTTTGCAACCG
ATCAGGGTGTGCTGCCTCTTTCATCGTTTATAGAGATCTACATAGAGGTTGAGGATGTCAATGACAATGCACCAC

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FIGURE 1530B

AGACATCAGAGCCTGTTTATTACCCAGAAATCATGGAAAATTCTCCTAAAGATGTATCTGTGGTCCAGATCGAGG
CATTGTGATCCAGATTTCGAGCTCTAATGACAAGCTCATGTACAAAATTACAAGTGGAAATCCACAAGGATTCTTTT
CAATACATCCTAAACAGGTCTCATCACAACCTACGTCAAGGAAGCTAGACCGAGAACAGCAAGATGAACACATAT
TAGAGGTTACTGTGACAGACAATGGTAGTCCCCCAAAATCAACCATTGCAAGAGTCATTGTGAAAATCCTTGATG
AAAATGACAACAAACCTCAGTTTCTGCAAAAGTTCTACAAAATCAGACTCCCTGAGCGGGAAAAGCCAGACCGAG
AAAGAAATGCCAGACGGGAGCCGCTCTATCACGTCATAGCCACCGACAAGGATGAGGGCCCCAATGCAGAAATCT
CCTACAGCATCGAAGACGGGAATGAGCATGGCAAATTTTTCATCGAACCAGAAAATGAGAGTGGTTTTCGTCCAAGA
GGTTTTCAGCAGCTGGAGAATATGATATTCTTTCAATTAAGGCAGTTGACAATGGTCGCCCTCAAAAGTCATCAA
CCACCAGACTCCATATTGAATGGATCTCCAAGCCCAAACCGTCCCTGGAGCCCATTTCATTTGAAGAATCATTTT
TTACCTTTACTGTGATGGAAAGTGACCCCGTTGCTCACATGATTGGAGTAATATCTGTGGAGCCTCCTGGCATA
CCCTTTGGTTTGACATCACTGGTGGCAACTACGACAGTCACCTCGATGTGGACAAGGGAAGTGAACCATCATTG
TTGCCAAACCTCTTGATGCAGAACAGAAGTCAAACCTACAACCTCACAGTCGAGGCTACAGATGGAACCCACTA
TCCTCACTCAGGTATTCATCAAAGTAATAGACACAAATGACCATCGTCCTCAGTTTCTACATCAAAGTATGAAG
TTGTTATTCTGAAGATACAGCGCCAGAAACAGAAATTTTGCAAATCAGTGCTGTGGATCAGGATGAGAAAAACA
AACTAATCTACACTCTGCAGAGCAGTAGAGATCCACTGAGTCTCAAGAAATTTTCGTCTTGATCCTGCAACCGGCT
CTCTCTATACTTCTGAGAACTGGATCATGAAGCTGTTTACCAGCACACCCCTCACGGTCATGGTACGAGATCAAG
ATGTGCCTGTAAAACGCAACTTTGCAAGGATTGTGGTCAATGTGAGCGACACGAATGACCACGCCCCGTGGTTCA
CCGCTTCCTCTACAAAGGGCGGGTTTATGAATCGGCAGCCGTTGGCTCAGTTGTGTTGCAGGTGACGGCTCTGG
ACAAGGACAAAGGGAAAAATGCTGAAGTGCTGTACTCGATCGAGTCAGXXXXXXXXXXGAAATATTGGAAATCTT
TTATGATTGATCCTGTCTTGGGCTCTATTAAGCTGCCAAAGAATTAGATCGAAGTAACCAAGCGGAGTATGATT
TAATGGTAAAAGCTACAGATAAGGGCAGTCCACCAATGAGTGAATAAATCTGTGCGTATCTTTGTCACAATTG
CTGACAACGCCTCTCCGAAGTTTACATCAAAAGAATATTCTGTTGAACCTAGTGAAACTGTCAGCATTGGGAGTT
TCGTTGGGATGGTTACAGCCCATAGTCAATCATCAGTGGTGTATGAAATAAAAGATGGAATAACAGGTGATGCTT
TTGATATTAATCCACATTCTGGAACCTATCATCACTCAGAAAGCCCTGGACTTTGAAACTTTGCCCATTTACACAT
TGATAATACAAGGAATAACATGGCTGGTTTGTCCACTAATACAACGGTTCTAGTTCACTTGCAAGGATGAGAATG
ACAACGCGCCAGTTTTTATGCAGGCAGAAATACAGGACTCATTAGTGAATCAGCCTCAATTAACAGCGTGGTCC
TAACAGACAGGAATGTCCCACTGGTGATTGAGCAGCTGATGCTGATAAAGACTCAAATGCTTTGCTTGTATATC
ACATTGTTGAACCATCTGTACACACATATTTTGCTATTGATTCTAGCACTGGTGCTATTTCATACAGTACTAAGTC
TGGACTATGAAGAAACAAGTATTTTCACTTTACCGTCCAAGTGATGACATGGGAACCCACGTTTATTTGCTG
AGTATGCAGCGAATGTAACAGTACATGTAATTGACATTAATGACTGCCCCCTGTGTTTGCCAAGCCATTATATG
AAGCATCTCTTTTGTACCAACATACAAAGGAGTAAAGTCATCACAGTAAATGCTACAGATGCTGATTCAAGTG
CATTCTCACAGTTGATTTACTCCATCACCGAAGGCAACATCGGGGAGAAGTTTCTATGGACTACAAGACTGGTG
CTCTCACTGTCCAAACACAACCTCAGTTAAGAAGCCGCTACGAGCTAACCGTTAGAGCTTCCGATGGCAGATTTG
CCGGCCTTACCTCTGTCAAAATTAATGTGAAAGAAAGCAAAGAAAGTCACCTAAAGTTTACCCAGGATGTCTACT
CTGCGGTAGTGAAAGAGAATTCCACCGAGGCCGAAACATTAGCTGTCACTTACTGCTATTGGGAATCCAATCAATG
AGCCTTTGTTTTATCACATCCTCAACCCAGATCGCAGATTTAAAAATAAGCCGCACTTCAGGAGTTCTGTCAACCA
CTGGCAGGCCCTTCGATCGTGAGCAGCAGGAGGCGTTTGATGTGGTTGTAGAAGTGACAGAGGAACATAAGCCTT
CTGCAGTGGCCACGTTGTGCTGAAGGTCAATTGTAGAAGACCAAAATGATAATGCGCCGGTGTGTTGCAACCTTC
CCTACTACGCCGTTGTTAAAGTGGACACTGAGGTGGGCCATGTCATTGCTATGTCAGTGTGTAGACAGAGACA
GTGGCAGAAACGGGGAAGTGCATTACTACCTCAAGGAACATCATGAACACTTTCAAATTGGACCCTTGGGTGAAA
TTTCACTGAAAAAGCAATTTGAGCTTGACACCTTAAATAAAGAATATCTTGTACAGTGGTTGCAAAAGATGGAG
GGAACCCGGCCTTTTTCAGCGGAAGTTATCGTTCCGATCACTGTGATGAATAAAGCCATGCCTGTGTTTAAAAAC
CTTTCTACAGTGCAGAGATTGCAGAGAGCATCCAGGTGCACAGCCCTGTGGTCCACGTGCAGGCTAACAGCCCGG
AAGGCCTGAAAGTGTCTACAGCATCACAGACGGAGACCCCTTTCAGCCAGTTCACTATTAACCTCAATACTGGAG
TTATCAATGTCTAGCTCCTCTGGACTTTGAGGCCCCCGGCATATAAGCTGAGCATACGCGCAACTGACTCCT
TGACGGGCGCTCATGCTGAAGTATTTGTGGACATCATAGTAGACGACATCAATGATAACCCCTCCTGTGTTTGCTC
AGCAGTCTTATGCGGTGACCCTGTCTGAGGCATCTGTAATTGGAACGTCTGTTGTTCAAGTTAGAGCCACCGATT
CTGATTGAGAACCAATAGAGGAATCTCATACCAGATGTTTGGGAATCACAGCAAGAGTCATGATCATTTTCATG

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FIGURE 1530C

TAGACAGCAGCACTGGCCTCATCTCACTACTCAGAACCCTGGATTACGAGCAGTCCCGGCAGCACACGATTTTTG
TGAGGGCAGTTGATGGTGGTATGCCCACGCTGAGCAGTGATGTGATTGTCACGGTGGACGTTACCGACCTCAATG
ATAATCCACCACTCTTTGAACAACAGATTTATGAAGCCAGAATTAGCGAGCAGCCCCCTCATGGGCATTTCTGTGA
CCTGTGTAAAGCCTATGATGCAGACAGTTCAGACATAGACAAGTTGCAGTATTCCATTCTGTCTGGCAATGATC
ATAAACATTTTGTCAATTGACAGTGCAACAGGGATTATCACCCCTCTCAAACCTGCACCGGCACGCCCTGAAGCCAT
TTTACAGTCTTAACCTGTCAGTGTCTGATGGAGTTTTTAGAAGTTCCACCCAGGTTTCATGTAAGTGTAAATGGAG
GCAATTTGCACAGTCTGCTTTTCCTTCAGAACGAATATGAAGTGGAACTAGCTGAAAACGCTCCCCCTACATACCC
TGGTGATGGAGGTGAAAACCTACGGATGGGGATTCTGGTATTTATGGTCACGTTACTTACCATATTGTAAATGACT
TTGCCAAAGACAGATTTTACATAAATGAGAGAGGACAGATATTTACTTTTGAAAACTTGATCGAGAAAACCCCGG
CGGAGAAAAGTGATCTCAGTCCGTTTAATGGCTAAGGATGCTGGAGGAAAAGTTGCTTTCTGCACCGTGAATGTCA
TCCTTACAGATGACAATGACAATGCACCACAATTTTCGAGCAACCAAATACGAAGTGAATATCGGGTCCAGTGCTG
CTAAAGGGACTTCAGTCGTTAAAGTTCTTGCAAGTGATGCCGATGAGGGCTCCAATGCCGACATCACCTATGCCA
TTGAAGCAGACTCTGAAAGTGTAAGAGAATTTGGAAATTAACAAACTGTCCGGCGTAATCACTACAAAGGAGA
GCCTCATTGGCTTGGAATGAATTTCTTCACTTTCTTTGTTAGAGCTGTGGATAATGGGTCTCCATCAAAAGAAT
CTGTTGTTCTTGTCTATGTTAAATCCTTCCACCGGAAATGCAGCTTCCAAAATTTTCAGAACCTTTCTATACCT
TTACAGTGTGAGAGGACGTGCCTATTGGAACAGAGATAGATCTCATCCGAGCAGAACATAGTGGGACTGTTCTTT
ACAGCCTGGTCAAAGGGAATACTCCAGAAAGCAATAGGGATGAGTCTTTGTGATTGACAGACAGAGCGGGAGAC
TGAAGTTGGAGAAGAGTCTTGATCATGAGACAATAAGTGGTATCAGTTTTCCATACTGGCCAGGTGCACTCAAG
ATGACCATGAGATGGTGGCTTCTGTAGATGTTAGTATCCAAGTGAAAGATGCAATGACAACAGCCCGGTCTTTG
AATCTAGTCCATATGAGGCATTCATTGTTGAAAACCTGCCAGGGGGAAGTAGAGTAATTCAGATCAGGGCATCTG
ATGCTGACTCAGGAACCAACGGCCAAGTTATGTATAGCCTGGATCAGTCACAAAGTGTGGAAGTCATTGAATCCT
TTGCCATTAACATGGAACAGGCTGGATTACAACCTTTAAAGGAACCTTGACCATGAAAAGAGAGACACTTACCAGA
TTAAAGTGGTTGCATCAGATCATGGTGAAAAGATCCAGCTATCCTCCACAGCCATTGTGGATGTTACCGTCACCG
ATGTCAACGATAGTCCACCAGATTACCGCCGAGATCTATAAAGGGACTGTGAGTGAGGATGACCCCTTAGGTG
GGGTGATTGCCATCTTAAGTACCACGGATGCTGATTCTGAAGAGATCAACAGACAAGTTACATATTTACATAACAG
GAGGGGATCCTTTAGGACAGTTTGCTGTTGAAACTATACAGAATGAATGGAAGGTATATGTGAAGAACTCTAG
ACAGGGAAAAAAGGACAATTACCTTCTTACTATCACGGCAACTGATGGCACCTTCTCATCAAAAGCGATAGTTG
AAGTGAAAGTTCTGGATGCAAATGACAACAGTCCAGTTTGTGAAAAGACTTTATATTCAGACACTATTCCTGAAG
ACGTCCTTCTCGGAAAATTGATCATGCAGATCTCTGCTACAGACGCAGACATCCGCTCTAACGCTGAAATTACTT
ACACGTTATTGGGTTTCAGGTGCAGAAAATTCAAATAAATCCAGACACAGGTGAACTGAAAACGTCAACCCCCC
TTGATCGTGAGGAGCAAGCTGTTTATCATCTTCTCGTCAGGGCCACAGATGGAGGAGGAAGATTCTGCCAAGCCA
GTATTGTGCTCAGCTAGAAGATGTGAACGATAACGCCCCGAATTCTCTGCCGATCCTTATGCCATCACCGTGT
TTGAAAACACAGAGCCGGGAACGCTGCTGACAAGAGTGCAGGCCACAGATGCCGACGCAGGATTAAATCGGAAGA
TTTTATACTCACTGATTGACTCTGCTGATGGGCAGTTCTCCATTAACGAATTATCTGGAATTATTCAGTTAGAAA
AACCTTTGGACAGAGAACTCCAGGCAGTATACACCTCTCTTTGAAAGCTGTGGATCAAGGCTTGCCAAGGAGGC
TGACTGCCACTGGCACTGTGATTGTATCAGTTCTTGACATAAATGACAACCCCCCTGTGTTTGAAGTACCGTGAAT
ATGGTGCCACCGTGTCTGAGGACATTCTTGTGGAAGTGAAGTTCTTCAAGTGTATGCAGCAAGTCGGGATATTG
AAGCAAATGCAGAAATCACCTACTCAATAAAGTGGAAATGAACATGGGAAATTGAGCATAGATTCTAAAACAG
GGCCCGTATTTATCATTGAGAATCTGGATTATGAGAGCTCTCATGAGTATTACCTAACAGTAGAGGCCACTGATG
GAGGCACGCTTCACTGAGCGACGTTGCCACTGTGAACGTTAATGTAACAGATATCAACGATAATACCCCTGTGT
TCAGCCAAGACACCTACACGACAGTCATCAGTGAAGATGCCGTTCTTGAGCAGTCTGTATCACGGTTATGGCCG
ATGATGCCGATGGACCTTCCAACAGCCACATCCACTACTCAATTATAGATGGCAACCAAGGAAGCTCGTTTACAA
TTGACCCCGTCAGGGGAGAAGTCAAAGTGACCAAACCTTCTCGACCGAGAAACGATTTTCAAGTTACACGCTCACGG
TTCAAGCTTCTGATAATGGCAGTCCACCCAGAGTCAACACGACGACCGTGAACATCGATGTGTCCGATGTCAATG
ACAACGCGCCCGTCTTCTCCAGGGGAACTACAGTGTCTATATCCAGGAAAATAAGCCAGTGGGCTTCAGCGTGC
TGCAGCTGGTAGTAACAGATGAGGATTCTTCCATAACGGTCCACCCCTTCTTCTTTACTATTGTAAGTGGAAATG
ATGAGAAGGCTTTTGAAGTTAACCCGCAAGGAGTCTCTGACATCATCTGCCATCAAGAGGAAGGAGAAAGATC
ATTACTTACTGCAGGTGAAGGTGGCAGATAATGGAAAGCCTCAGTTGTCTATCTTTGACATACATTGACATTAGGG

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FIGURE 1530D

TAATTGAGGAGAGCATCTATCCGCCTGCGATTTTGGCCCTGGAGATTTTCATCACCTCTTCTGGAGAAGAATACT
CAGGTGGCGTCATTGGGAAGATCCATGCCACAGACCAGGACGTGTATGATACTCTAACCTACAGTCTCGACCCTC
AGATGGACAACCTGTTCTCTGTTTCCAGCACAGGGGGCAAGCTGATAGCACACAAAAGCTAGACATAGGGCAAT
ACCTTCTCAATGTCAGCGTAACAGATGGGAAGTTTCACGACGGTGGCCGACATCACAGTGCATATCAGACAAGTCA
CACAGGAGATGTTGAACCACACCATCGCGATCCGCTTTGCCAACCTCACTCCGGAAGAATTGCTTGGTGACTION
GGCGCAACTTCCAGCGAGCTTTACGGAACATCCTGGGTGTGAGGAGGAACGACATACAGATTGTTAGTTTGCAGT
CCTCTGAACCTCACCCACATCTGGACGTCTTACTTTTTGTAGAGAAACCAGGTAGTGCTCAGATCTCAACAAAAC
AACTTCTGCACAAGATTAACTCTTCCGTGACTGACATTGAGGAAATCATTGGAGTTAGGATACTGAATGTATTCC
AGAACTCTGCGCGGGACTGGACTGCCCCGGAAGTTCTGCGATGAAAAGGTGTCTGTGGATGAAAGTGTGATGT
CAACACACAGCACAGCCAGACTGAGTTTTGTGACTCCCCGCCACCACAGGGCAGCGGTGTGTCTCTGCAAAGAGG
GAAGGTGCCACCTGTCCACCATGGCTGTGAAGATGATCCGTGCCCTGAGGGATCCGAATGTGTGTCTGATCCCT
GGGAGGAGAAACACACCTGTGTCTGTCCCAGCGGCAGGTTTGGTCAGTGCCAGGGAGTTTCATCTATGACACTGA
CTGGAAACAGCTACGTGAAATACCGTCTGACGGAATAATGAAAACAAATTAGAGATGAAACTGACCATGAGGCTCA
GAACATATTCCACGCATGCGGTTGTCTGTATGCTCGAGGAACCTGACTATAGCATCTTGGAGATTCATCATGGAA
GGCTGCAGTACAAGTTTGACTIONTGTGAAGTGGCCCTGGAATTGTCTCTGTTTCAGAGCATTTCAGGTCAATGATGGGC
AGTGGCACGCAGTGGCCCTGGAAGTGAATGGAACCTATGCTCGCTTGGTTCTAGACCAAGTTTCATACTGCATCGG
GCACAGCCCCAGGGACTCTGAAAACCTGAACTGGATAACTATGTGTTTTTGGTGGCCACATCCGTCAGCAGG
GAACAAGGCATGGAAGAAGTCTCAAGTTGGTAATGGTTTCAGGGGTTGTATGGACTCCATTTATTTGAATGGGC
AGGAGCTCCCTTTAAACAGCAAACCCAGAAGCTATGCACACATCGAAGAGTCGGTGGATGTATCTCCAGGCTGCT
TCCTGACGGCCACGGAAGACTGCGCCAGCAACCCTTGCCAGAATGGAGGCGTTTGCAATCCGTCACCTGCTGGAG
GTTATTACTGCAATGCAGTGCCTTGTACATAGGGACCCACTGTGAGATAAGCGTCAATCCGTGTTCTCTCCAAGC
CATGCCTCTATGGGGGCACGTGTGTTGTGTCGACAACGGAGGCTTTGTTTGGCAGTGTAGAGGATTATATACTGGTC
AGAGGTGTCAGCTTAGTCCATACTGCAAAGATGAACCTGTAAAGATGGCGGAACATGCTTTGACAGTTTGGATG
GCGCCGTTTGTGAGTGTGATTGCGGTTTTAGGGGAGAAAGGTGTCAGAGTGATATCGACGAGTGTCTGGAACCC
CTTGCCCTGCACGGGGCCCTCTGTGAGAACACGCACGGCTCCTATCACTGCAACTGCAGCCACGAGTACAGGGGAC
GTCAGTGCAGGATGCTGCGCCCAACAGTATGTGTCCACGCCGTGGAACATTGGGTTGGCGGAAGGAATTGGAA
TCGTTGTGTTTGTGAGGATATTTTTACTGGTGGTGGTGTGTTGTTCTCTGCCGTAAGATGATTAGTCGGAAAA
AGAAGCATCAGGCTGAACCTAAAGACAAGCACCTGGGACCCGCTACGGCTTTCTTGCAAAGACCGTATTTTGATT
CCAAGCTAAATAAGAACATTTACTCAGACATACCACCCAGGTGCCTGTCCGGCCTATTTCTACACCCCGAGTA
TTCCAAGTGACTCAAGAAACAATCTGGACCGAAATTCCTTCGAAGGATCTGCTATCCCAGAGCATCCCGAATTCA
GCATTTTTAACCCGAGTCTGTGACGGGCACCGAAAAGCAGTGGCGGTCTGCAGCGTGGCGCCAAACCTGCCTC
CCCCACCCCTTCAAACCTCCCTTCTGACAGCGACTCCATCCAGAAGCCTAGCTGGGACTTTGACTATGACACAA
AAGTGGTGGATCTTGATCCCTGTCTTTCCAAGAAGCCTCTAGAGGAAAAGCCTTCCCAGCCATACAGTGGCCGG
AAAGCCTGTCTGAAGTGCAGTCTCTGAGCTCCTTCCAGTCCGAATCGTGCGATGACAATGGGTATCACTGGGATA
CATCAGATTGGATGCCAAGCGTTCTCTGCCGGACATACAAGAGTTCCCCAACTATGAGGTGATTGATGAGCAGA
CACCCCTGTACTCAGCAGATCCAAACGCCATCGATACGGACTATTACCCTGGAGGCTACGACATCGAAAGTGATT
TTCCTCCACCCCAAGAAGACTTCCCCGCGAGCTGATGAGCTACCACCGTTACCGCCCGAATTACAGCAATCAGTTTG
AATCCATCCACCTCCTAGAGACATGCCTGCCGCGGGTAGCTTGGGTTCTTCATCAAGAAACCGGCAGAGGTTCA
ACTTGAATCAGTATTTGCCCAATTTTTATCCCTCGATATGTCTGAACCTCAAACAAAAGGCACTGGTGAGAATA
GTACTTGTAGAGAACCCATGCCCCTTACCCGCCAGGGTATCAAAGACACTTCGAGGCGCCCGCTGTGAGAGCA
TGCCCATGTCTGTGTACGCCTCCACCGCTCCTGCTCTGACGTGTGAGCCTGCTGCGAAGTGGAGTCCGAGGTCA
TGATGAGTGACTATGAGAGCGGGGACGACGGCCACTTCGAAGAGGTGACGATCCCGCCCTGGATTCCAGCAGC
ACACGGAAGTCTGACTCTCAACTCCCCCAAGTGCTGACTTTAGTGAACCTAGAGGTGATGTGAGTAATCCGC
GCTGTTCTTTGACGAGTGTCTTCAAGCTTTTTTGGTGAGCCGAATGGGCATGGCTGCGCTGGATCCTGCGCCT
CTGGACGTGCTAGCCATTTCCAGTGTCCCAACTACTGTCTATCGTGAGGTTTTTCATCGGCTGTGCCATTTCCCAAC
GTCTTTTGGGATTTACATCTGTCTGTGTTAAATAATCAAACGAAAATCAGTCCTGTGTTGTGACGATGATTCA
TGTATTTATATAGATTTGATTATTTTAATTTTCTGTCTCTTTTTTTGTAAATTTTATGTACAGATTTGATTTT
TCATAGTTTTAACTAGATTTCCAAGATATTTGTGCATTTGTTTCACTGAATTTTGGTGGTGTGAGTCCATTA

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FIGURE 1530E

TCTAGCACCTGATTTTTTTTTTTTTACTATAACCAGGGTTTCATTCTGTCTTTTTCCACTGAAGTGTGACATT
TGTTAGTACATTCAGTGTAGTCATTCATTTCTAGCTGTACATAGGATGAAGGAGAGATCAGATACATGAACATG
TCTTACATGGGTTGCTGTATTTAGAATTATAAACATTTTTCATTATTGGAAAGTGTAAACGGGGACCTTCTGCATA
CCTGTTTAGAACCAAAACCACCATGACACAGTTTTTATAGTGTCTGTATATTTGTGATGCAATGGTCTTGTAAG
GTTTTTAATGAAAACCTACCATTAGCCAGTCTTCTTACTGACAATAAATTATTAATAAAAT

1657/6881
FIGURE 1531

GGGGCGCTGCCCCGGTGGCTCTGGCCCCGCCGGGCGGTTGGCCCAGCCCCGCCGGCCCCCTGAGCTCCGGTAGCCCCGC
CGCTGGAGAAGCTGTTTCGCCCCGGGGCGGGCCCTTGCGGACCTTCCTCGAGCGCCAGGCGGGGTCTGAAGCCCATT
TGAAGGTCAGGAGGCCCCGAGTTGCTGGCGGTGATCAAACCTGCTGAACGAGAAGGAGCAGGAGCTGCGGGAGACTG
AGCACTTGCTGCACGATGAGAATGAAGGTTTAAGGAAACTTGCAGAGAATGAAATCACTTTGTGTCAAAAAGAAA
TAACTCAGCTGAAGCATCAGATTATCTTACTTTTGGTTCCCTCAGAAGAAACAGATGAAAATGATTTGATCCTGG
AAGTAACTGCAGGAGTTGGAGGTCAGGAGGCAATGTTGTTTACATCAGAGATATTTGATATGTATCAGCAATATG
CTGCATTTAAAAGATGGCATTGAAACCCTGGAATATTTTCCAAGTGAAGTAGGTGGCCTTAGACATGCATCTG
CCAGCATTGGGGGTTTCAAGCCTATAGGCACATGAAATTTGAAGGAGGTGTTACAGAGTACAAAGAGTGCCAA
AGACAGAAAAGCAAGGCTGCGTCCATACTAGCACCATGACTGTAGCAATATTACCCAGCCTACTGAGATTAATC
TGGTGATTAATCCGAAAGATTTGAGAATTGACACTAAGCGAGCCAGTGGAGCTGGGGAGCAGCATGTAAATACCA
CGGACAGTGCTGTCCGGATAGTTCATCTTCCAACAGGTGTTGTTTCTGAATGTCAACAAGAGAGATCTCAGCTGA
AAAATAAAGAGCTGGCTATGACAAAGTTACGTGCAAACTGTACAGCATGCATGTAGAAGAAGAAATAAATAAAA
GACAGAATGCTAGAAAAATTCAGATTGGAAGTAAAGGAAGATCAGAGAAAATAAGAACATATAATTTTCCACAGA
ACCGGGTCACAGATCACAGAATAAACAAGACGCTGCATGATCTTGAACTTTTATGCAAGGAGATTATCTACTGG
ATGAACCTGTACAGTCATTGAAGGAATACGCCAATTATGAATCTTTAGTAGAAATTATTTCCCAAAAAGTTTAA

1658/6881
FIGURE 1532

ATGCCGCTGCGGGTTTTTGCGGCTTTCTGCCCCCGCCGCGCGGCTTTCTGACCCTGGCCTCGCCGAATTTAGCC
CCTGCCGTACGGCTTTTTGGGGCTCTTTGCCCTCGCCGCGCGGCTTTTTGCCGCGCAGCTTTTTGCATCTTT
CTCCCCCTGCCTCCGTGGCTTTTTGCCCCCTGAAGCCACAGCTTTTTGCCCCTCGCCGCGCGGCTTTTTGCGACCT
TTTCCCCCTGCTGCCGCGAGCTTTTTGCCCCCACCACCGCGAATTTTTCTGCCGCGGCTTTTTGTCACCGCCGCC
GTGGCTTTTTATGGCTTTTGCCCCCGGTTTTTCCCGCCGCGGCTTCCTGCCCCGAGCCCCGGCTTTTTGCGGC
TTTTTGCCGCGGTGGCTTTTGCCCCCGCCACTGTGGCTTTTTACGCTTTTCGCCCCGCGCGCGCAGGTTTTT
CCAGCCGCGGCTTCTTGCCCCACTGCCCGGGCTTTTTGTGTCGTTTTGCCCCGCGCGCGGGCTTTTTGCTGC
TATTTGTCCCTGCCACCACAGCTTTTGCCCCCGCGCGCGGCTCCTTGCCCCCTACGTGGCTTCCTGTCCCCG
CCTCCGCGGCTTTTTATCACCCAGCCGCTTTTGCCCCCGCGGCCACGGTTTTTGCTCCTGCCGCGGAGGTT
TTTGCGCTTTCATGTCCCCACCGTCGTGGCTTTTTGCCGCCCCCTGCTTTTTGCCCCCTCTGACGCGGCTTTTTGC
GGCTTTTTTACCACCTCCACCGTGGCTTTTTGCGGCTTTTGGCACCAGGACGCCATGGCTTTTTTACGGCTTTTTGCC
CCGCCGCCACGGCTTTTTGCTGCCGCCACACCGTTTAGCCCCCACCAGCGCTTTTTGCACCCGCGAGCCGCATCTT
TTTGCCGCGCGACTTCTTACCCCGCCACCGCGGTTTTTACCCTGAGGCTTTTTTACCCCGCGTCCGCGGGTTT
TTGCCCCCACCGCCGTGGCTTTTTGCCCCCACCGCCGCGGCTCTGAGGGCGGGATTGGCAGACTCGGCTGCTAGA
TCTACCGGCGTCTGGCTAAGGCAGCGCCGACGGTCACTCCTGGTCCAGCTCTCCTGGTTCGGGGGCTGCATAGA
GCAGCGCCAAGCTCGGCCCCGATGGGAGAGAAGAAGGAGAGCGGTGGAGGGGGTGACGCGGCTATTGCGGAGGGA
GGCGCAGGGGCCGAGCCAGCCGGGTGCTGCAGCAGTGCGGGCGAGCTCCAGAAGCTCATTGGCATCTCCTTTGGC
AGCCTGCGTTGGCTGCGACCAAGTGCCTGAGTCCAAAGACCTCACCAGCAGGAGATACGGACCGTGCAGGAT
GAGTCCGAGGGGCTCCTAGGCACAGAGGGGCCCTGGAGGAAGAAGAGGATGGAGAGGAGCTCATTGGAGATGGC
ATGGAAAGGTAA

1659/6881
FIGURE 1533

ATGGATGAGGACAGCTGTGTCAATGCCAGGCCACGGGAACCTCCACTTGCTAAACAGAATGTTATCCCGGAAATC
TGTGCCCTTCTCTGTATGCCTCTTGTCCCTTTTTTCACTGCCCTATTCAGTAACTTCACAAATATATAATGAGCAC
CTGCCAAGAACCATGTCAGGCCTGGGGCAACAAACAGCCCCTGCTGTCAAGGAACCCGCAGGCTTGTGGGGCCGT
CATGCTATCAAAAGGCAGCTCCAAGAGAGACAGTGGGATGAGTGTCAAACAGATGTTTCAGCCAAGTATGGCAGG
AGCTCAGAGGAGGCCTCATCACTTGTTGCCTGGGACAGACGCTCTGGCTGGTCTGCCACCTCCCACCCAGCCCT
CCCTGTGCGCTGCTGCCAGAATGTCTTCCTGAACACAGCTATGACTGGGCCTACTGGCCTTGGCTGTTTGATCTA
AGCAGAGGCCTAACTGAGACTGAACTAAGCATTTTTCTCTCCCAGGAATTGGAATTTTGAACCACGAATGAGC
ACCTCTGCAGCCAAGGCCCATGAGCAATGGCACCCCTGGAGGAGAAGCCCAAGAAGCAGACCTGGTTCCAGCCCCT
TTCACCGCCCGGGGTGCCACGGCCCTTTCAACGTGTATGGCAGGAGGTGTGCAGGGCATTTCAGGAGGCCTCCTGG
CTGGCACTCGACCCAATTAGTCATTCAACGCCAGGTCTGGGGCTGCTGTCTGTTGTCTCAAAGCCCATCTGTGAA
CACATGGTAGAGTCTCCAACCTGTTCCAGATGTCCAACCTGGTCTGCGGCACTGATGGGCTCACATATACGAAT
GAATGCCAGCTCTGCTTGGCCCGGATCCTGTTTGAATTCTTCGGCCAAGTGAGGTACAGACCAGGGCCCTATGAA
CACCTGCAAGCAAGACAGCCACGCAGTTGTGGGTACCTTGGAAGAATATTGGAGAATGCAAGAGAGAACAGGGC
AGCAGTGAACCAGTTGTCCAAGACCTGGCCCAGGTTGTTGAAGAGGTCATAGGGGTTCCACAGTCTTTTCAGAAA
CTCATATTTAAGGTTTTACTATGCCCAAACAGAAATCCTGATGGGAAAAGGAAAATGCCTTGCTATATCTGTAATT
TATCAACATGAAAACATTACGGTTTTAATCATAAAATTCAAGAGATTTAACTTGTTTGCCATCAGTTCTCCACCA
AGGAAAAGATAAGTTGATATTGCCAGCCTTTCATGAGCTTCCTCCTAACAGTAGGCTTATCGCCTTTGCACATTCC
TATAGCAGAGAACATAGATCTGACTGCCTTAAGGGATACCAATTTCTCTCTCTTCAAATTCTATCATCCTCAGT
GGGCAAACAGAAGCCAGAAAATCCTGCCAAAAACCTTTCATCTGGTCAGGGAGTGGAGGCCGTGCTGTGCGCGCC
CTCTTGCGGGAGCCACCAGGCAAGCATCTTAAGAGGGGCAAGCGGAAAAGGTGTCTGTGGATCTGCCCTGTTCT
GGTGGTTTCAGGCAGCCCTGCTTTCTTCCCGCTGGCAGTCAGCAGGGGGGAGAGTCACTCAGAGCAAGATGGA
GAGCCTTAG

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FIGURE 1534

CAGAAGAAGCCCTTTGAGGAGCACTGGAGGAAGCACACCCTGTCCTATGTGGACGTTGGCACTGGGAAGTGCACA
GCCAGAGAACAACACATCACACACAGGAAACAGTTGTGCTCATGTGATGGGGGCCTCAGCACTAGGAAGGAGTGG
ACTATTGGCACACGCAGCAGCTTGAATAAATCTGAAAGTCACTATGCTGTGTAAGAGAAGCCAAATTTAAAAAGT
GCATGCTGTGTACAGAGGGTGTCAAGAATGCCTCCTACGTGACGGAAGCAGATCCGTGGTTGCCTGCAGACTGG
CAGGAGCAGATTCCAAAGGCACAGGAAGAAGCTTGTGGGTAGAATGTGTTTATTACCTTCTGTGCATTATACCAT
AAAAAAGCTGGTCAAAAAATGCAAACCAAAACAAAGGTGAACTAGGATAAGATTTCTCACCTGTGTGATTGG
TAAACGTGCAGATGTGCCGTATGCTTTGTTTATGAAGCTGTGGGATACAAGGACTCTCATACGTCACTGTGGAA
TGCAGAATATTGCAGCCTCATGGAAGAGGATTTGGCAGCGTCTAACAAAACCTACATGGCATTGCCCCTTTGACTC
AGCAATTCTAGAATCTGCCTCAAAAAAACTCCAGCAAAGAAATGAAAGGACTTTAGGCACAGAGTTCTTTTCACA
GCCTGCATGTGTTTGAACAAAGTTCTTCACTGTGGCGTTTGTAAATGTGGGGAAAAGAGAGATCAGGCTGGTAC
TGTGTCTGTGTAGAAAAGGAGGACGTAAGAACTCCATTTTGATCTGTACCCCGAGCGATTGTTTGGCCCTGAGA
TGCTGTTAATCTGTAACCTTTAGCCCCAGCCTTGAGCTCAGAGAAACCTGTGTTGTATGGAATCAAGTTTCAGGG
ATCTAGGGCTGTGCAGGACGTGCCTTGTTAAGAAAATGCTTACAGGCAGTACGCTTGGTAAAAAGTTATCGCCATT
CTCCATTCTCGATAAACCAGGGGCACAATGCACTGCGGAAAGCCGCAGGGACCTCTGCCCAGGAAAGCCGGGTAC
CATCCAAGGTTTCTCCCCACTGAGATATGGCCTTGTGGGATGGGAAAGACCTGACCATCCACCAGCCCGACACCC
GTGAAGGATCTGTGCTGAGTAGGATTAGTAAAAGAGGAAGGCCTCTGTCTCCTGCCTTCCCCTGGGAACGGAATG
TCTCAGTATAAACTGATCGTACATTTGTTCAATTCTGAGATAGGAGAAAAACCACCCTGTGGTGGGAGGCGAGA
CATGTTGGCCGCAATGCTGCTGTTACTCTTTACTCCACTGAAATGTTTGGGTGGAGAGAAGCATAAATCTGGCCT
ACGTGCACATCTAGACATAGTACCTTCCCTTGAACCTTACTTGTGACACAGATTCCCTTTGCTCACATGTTTCTTG
CTGACCTTCTCCCCACTGTCACCCTGTTCTCCTGCCACATTCCCTTTGCTGAGATAGTAAAAATAGTAATCAATA
AATACTGAGGGAACCTCAGAGACCGGTGCCAGTGCGGGTCTCTGTATGCTGAGCGCCAGTCCCCTGGGCCCACTT
TTCTTTCTCT

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FIGURE 1535

AATAAAGAAATAGTGCTTTAAGTCAATGAATTCTCCTTGGGACCCACTATCGAGAACTATCAGTGGTAACGTT
TTAAAAAATGACAAATTCAATCTGCTCTTGACTTGTGTGTCTTAAGATTTCCACTAAGTGTCTTCAAACCTCCCC
CTCCCCGGCTTCTGGATAATAGAAGTTCCCGAAGGCCGCCGATTCCAGAAGATACTGTCTGGCGTGAAATTAGT
CTCAGTAGAAACATAAGTCCCGCGCGTCTTGTGTGTGCGGTGCGCAAGCTTTTGGGCCCTCCCGAGAAAGGGAAG
TGCATTCTCGCTTCCGTAGCGGTCTCCGCCGGTTGGGGGGAAGTAATTCCGGTTGTTGCACCATGGCGTCCATGG
GGACCCTCGCCTTCGATGAATATGGGCGCCCTTTCTCATCATCAAGGATCAGGACCGCAAGTCCCGTCTTATGG
GACTTGAGGCCCTCAAGTCTCATATAATGGCAGCAAAGGCTGTAGCAAATACAATGAGAACATCACTTGGACCAA
ATGGGCTTGATAAGATGATGGTGGATAAGGATGGAGATGTGACTGTAACATAATGATGGGGCCACCATCTTAAGCA
TGATGGATGTTGATCATCAGATTGCCAAGCTGATGGTGGAACTGTCCAAGTCTCAGGATGATGAAATTGGAGATG
GAACCACAGGAGTGGTTGTCTGGCTGGTGCCTTGTTAGAAGAAGCGGAGCAATTGCTAGACCGAGGCATTCACC
CAATCAGAATAGCCGATGGCTATGAGCAGGCTGCTCGTGTGCTATTGAACACCTGGACAAGATCAGCGATAGCG
TCCTTGTTGACATAAAGGACACCGAACCCCTGATTGAGACAGCAAAACCACGCTGGGCTCCAAAGTGGTCAACA
GTTGTACCCGACAGATGGCTGAGATTGCTGTGAATGCCGTCTCACTGTAGCAGATATGGAGCGGAGAGACGTTG
ACTTTGAGCTTATCAAAGTAGAAGGCAAAGTGGGCGGCAGGCTGGAGGACACTAACTGATTAAGGGCGTGATTG
TGGACAAGGATTTCACTCACCCACAGATGCCAAAAAAGTGGAAAGATGCGAAGATTGCAATTCTCACATGTCCAT
TTGAACCACCCAAACCAAAACAAAGCATAAGCTGGATGTGACCTCTGTGCAAGATTATAAAGCCCTTCAGAAAT
ACGAAAAGGAGAAATTTGAAGAGATGATTCAACAAATTAAGAGACTGGTGCTAACCTAGCAATTTGTCAGTGGG
GCTTTGATGATGAAGCAAATCACTTACTTCTTCAGAACAACTTGCTGCGGTTTCGCTGGGTAGGAGGACCTGAAA
TTGAGCTGATTGCCATCGCAACAGGAGGGCGGATCGTCCCCAGGTTCTCAGAGCTCACAGCCGAGAAGCTGGGCT
TTGCTGGTCTTGTACAGGAGATCTCATTGTTGGGACAACTAAGGATAAAATGCTGGTCATCGAGCAGTGAAGAACT
CCAGAGCTGTAACCATTTTTATTAGAGGAGGAAATAAGATGATCATTGAGGAGGCGAAACGATCCCTTCACGATG
CTTTGTGTGTCATCCGGAACCTCATCCGCGATAATCGTGTGGTGTATGGAGGAGGGGCTGCTGAGATATCCTGTG
CCCTGGCAGTTAGCCAAGAGGCGGATAAGTGCCCCACCTTAGAACAGTATGCCATGAGAGCGTTTGCCGACGCAC
TGGAGGTCATCCCCATGGCCCTCTCTGAAAACAGTGGCATGAATCCCATCCAGACTATGACCGAAGTCCGAGCCA
GACAGGTGAAGGAGATGAACCCTGCTCTTGCCATCGACTGTTTGACAAAGGGGACAAATGATATGAAGCAACAGC
ATGTCATAGAAACCTTGATTGGCAAAAAGCAACAGATATCTCTTGCAACACAAATGGTTAGAATGATTTTGAAGA
TTGATGACATTTCGTAAGCCTGGAGAATCTGAAGAATGAAGACATTGAGAAAATATGTAGCAAGATCCACTTCTG
TGATTAAGTAAATGGATGTCTCGTGATGCATCTACAGTTATTTATTGTTACATCCTTTTCCAGACACTGTAGATG
CTATAATAAAAATAGCTGTTTGGTAACCATAGTTTCACTTGTTCAAAGCTGTGTAATCGTGGGGGTACCATCTCA
ACTGCTTTTGTATTCAATTGATTAAAGAATCTGTTTAAACAACCTTTATCTTCTCTCGGGTTAAGAAACGTT
TATTGTAACAGTAATTAATGCTGCCTTAATTG

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FIGURE 1536

MASMGTLAFDEYGRPFLLIKDQDRKSRLMGLEALKSHIMAAKAVANTMRTSLGPNGLDKMMVDKGDVTVTNDGA
TILSMMDVDHQAIAKLMVELSKSQDDEIGDGTGTVVVLGALLEEAEQLLDRIHPRIADGYEQARVAIEHLDK
ISDSVLVDIKDTEPLIQTAKTTLGSKVVNSCHROMAEIAVNAVLTVADMERRDVDFELIKVEGKVGGRLDTKLI
KGVIVDKDFSHPQMPKKVEDAKIAILTCPFEPKPKTKHKLDVTSVEDYKALQKYEKEKFEEMIQQIKETGANLA
ICQWGFDDDEANHLLLQNNLPAVRWVGGEIELIAIATGGRIVPRFSELTAEKLGFAGLVQEISFGTTKDKMLVIE
QCKNSRAVTIFIRGGNKMIIEEAKRSLHDALCVIRNLIRDNRVVYGGGAAEISCALAVSQEADKCPTLEQYAMRA
FADALEVIPMALSENSGMNPIQTMTEVRARQVKEMNPALGIDCLHKGNTDMKQQHVIETLIGKKQQISLATQMVR
MILKIDDIRKPGESEE

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FIGURE 1537

GTATCTGTCCGGACGGAAGCAGGAAGCGGGAGCGTAGGGCCACGCCTGCGGCGCTGCTGGTTGAGGCTGTGTGGG
TCGGGGACGGGCCGAGGCGATGGCGGAGAAGTTTGACCACCTAGAGGAGCACCTGGAGAAGTTCGTGGAGAACAT
TCGGCAGCTCGGCATCATCGTCAGTGA CTTCAGCCCAGCAGCCAGGCCGGGCTCAACCAAAAGCTGAATTTTAT
TGTTACTGGCTTACAGGATATTGACAAGTGCAGACAGCAGCTTCATGATATTACTGTACCGTTAGAAGTTTTTGA
ATATATAGATCAAGGTCGAAATCCCCAGCTCTACACCAAAGAGTGCCTGGAGAGGGCTCTAGCTAAAAATGAGCA
AGTTAAAGGCAAGATCGACACCATGAAGAAATTTAAAGCCTGTTGATTCAAGAACTTTCTAAAGTATTTCCGGA
AGACATGGCTAAGTATCGAAGCATCCGGGGGGAGGATCACCCGCCTTCTTAACCAGCTCACCCCTCCCTGTGTGAA
GATCCCCCGGGACTGCGATGCGGCGTGAGGCTGGGACTGCGAGTGCTGACGCCACCTTCCTGCTGAGGTGGGACT
GGGCCCTGGACACACCCCTCAGCCCTCTGTCTCTATTGTTTGGCCTCATGGGACCGAGGGGCTGGAGGAGAGGC
GGAGCTGTGCCCCAGCTGTTCCAGCAGCTTGTCTGGCGTCAACTGGCTTTTCAGAGTGCTGACCCCTCATCACTGT
GGGATCATTCTCTCTGAGGGCAGATGAGGCGCAGGAAAATAGTCTTGAAATGTTAAATATGATGGGTAAATTA
AAAGTTTTACAACATTCTACCTAATATTTTTCTTTTAACATACTTTTTCTGTTCTATTGTATTATGGTGTCCGAA
AGCTAAATAACGACTAGGAAAAATTTTTTAAAAAAGAAAAATCAGTTTAATGTGGGAAGTACTTAAGTGGTAT
TATATTTTACATTTTCAAGTATAGTGCATAAAGAATGTTTTAAATGTAACGTGTTTCATGGATTTCAATTAGACA
TGCCTATAATAAATAAGTATGTGGCTTATTCCATGTAATTATTTTTGTAATATAATAACAATGTGTCTTGT

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FIGURE 1538

MAEKFDHLEEHLEKFVENIRQLGIIVSDFQPSSQAGLNQKLNFIIVTGLQDIDKCRQQLHDITVPLEVF EYIDQGR
NPQLYTKECLERALAKNEQVKGKIDTMKKFKSLLIQELSKVFPEDMAKYRSIRGEDHPPS

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FIGURE 1539

GGGATTTGTTATTGCGAATGATGTGGACAACAAGCGCTGCTACCTGCTCGTCCATCAAGCCAAGAGGCTGAGCAG
CCCCTGCAATCATGGTGGTCAACCATGATGCCTCCAGCATACCCAGGCTCCAGATAGATGTGGACGGCAGGAAAGA
GATCCTCTTCTATGATCGAATTTTATGTGATGTCCCTTGCACTGAGACGGCACTATGAGAAAAACATTGATGT
TTGGAAAAAGTGGACCACCTTAAATAGCTTGCACTACATGGCTTACAGCTGCGGATTGCAACACGCGGGGCTGA
ACAGCTGGCTGAAGGTGGAAGGATGGTGTATTCCACGTGTTCACTAAACCCTATTGAGGATGAAGCAGTCATAGC
ATCTTTACTGGAAAAAGTGAAGGTGCTTTGGAGCTTGCTGATGTGTCTAATGAACTGCCAGGGCTGAAGTGGAT
GCCTGGAATCACACAGTGAAGGTAATGACGAAAGATGGGCAGTGGTTTACAGACTGGGACGCTGTTCTTCACAG
CAGACACACCCAGATCCGACCTACCATGTTCCCTCCGAAGGACCCAGAAAAAGCTGCAGGCCATGCACCTGGAGCG
ATGCCTTAGGATATTACCCCATCATCAGAATACTGGAGGGTTTTTTGTGGCAGTATTGGTGAAAAATCTTCAAT
GCCGTGGAATAAACGTCAGCCAAAGCTTCAGGGTAAATCTGCAGAGACCAGAGAAAGCACACAGCTGAGCCCTGC
AGATCTCACAGAAGGGAAACCCACAGATCCCTCTAAGCTGGAAAGTCCGTCATTACAGGAACCTGGTGACACAGA
AATAGCTCATGCAACTGAGGATTTAGAGAATAATGGCAGTAAGAAAGATGGCGTGTGTGGTCTCTCCATCAAA
GAAAATGAAGTTATTTGGATTTAAAGAAGATCCATTTGTATTTATTCCTGAAGATGACCCATTATTTCCACCTAT
TGAGAAATTTTATGCTTTGGATCCTTCATTCCCAAGGATGAATTTGTTAACTCGGACTACAGAAGGGAAGAAAAG
GCAGCTCTACATGGTTTCTAAGGAGTTGCGGAATGTGCTGCTGAATAACAGTGAGAAGATGAAGGTTATTAACAC
GGGGATCAAAGTCTGGTGTAGAAATAACAGCGGTGAAGAGTTTGAAGTGTGCTTTCCGGCTGGCACAGGAGGGAAT
ATATACATTGTATCCATTTATTAAGTCAAGAATTATTACTGTATCAATGGAAGATGTTAAGATACTGTTGACCCA
GGAAAATCCCTTTTTTAGAAAAGTCAAGCAGTGAAGACCTACAGTCAAGCAAAGGACCTGGCAAAGGGAAGCATCGT
GCTGAAGTATGAACCAGATTCTGCGAATCCAGACGCTCTGCAGTGTCCCATCGTCTTATGCGGATGGCGGGGAAA
GGCCTCCATTGCAACTTTTTGTGCCCAAGAATGAACGGCTTCATTATCTCAGGATGATGGGGCTGGAGGTATTGGG
AGAAAAGAAGAAGGAAGGGTTATCCTCACAAATGAGAGTGCAGCCAGCACCGGACAGCCAGACAATGACGTGAC
TGAGGGACAGAGAGCAGGAGAGCCCAACAGCCAGATGCAGAAGAGGCCAACAGTCCAGACGTGACAGCAGGCTG
TGACCCGGCGGGGGTCCATCCACCCCGGTGAGCAGGCCCAAGGCAGCGGGGGCCACACCCCTCACACGCAAAAC
TGGCTTCTTCTGGTCACTGGTGTCTGAAACCAAATCCAGAGCAGCCTGTGGCCTGTAAAGCATATATTTCTAATG
ACTGCAGACTGGTGGGATCATAGGAGCCTTCTGAATGACCAGGACTGCTTTCTTTGGAGCTGATGAAAATGTACT
CTTTTAGCGTGTTAGAAATCACTTGTTTTATTTTGTCTTTGGCCAAGCTGGGTCTAGTGTTTCTTTTGCTGGG
AATAGACTTTCAAAAGTTGTACTTCTATCAAGAAACAAAAGTGCCTTGCAAGAAATTCAGGTCTTTTGTTAAGC
CTGTATTGGTCTTAAGGTGCAGTATTTTTTAAATTATTATTTATAGAAAGAAATCTATAAATCTTGGGGAAGTGT
GTTATAAGCTTTAATAATTACATTGAGCTGCACCTCAGTGGTGTGTCATTAAACATGCAGTGGGGTTAATATCTGA
GGCCTCAGATGACTTTGTGCTTTTGGAAATAAAGGGTAAATAAACTCTCCAGAGTAAGAGCTGTATCGTGAAT
TGTCATACTAATTATTGAGGGGGACTTATGTGCTTTTATTGAATGGAGTGCTTTACAATTTTTTATTTTTAAATGG
GGTTGGGATCCTTGAATATTTCAATAAAATTGATAAAATAT

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FIGURE 1540

TCCTGCTTCGCCCTCCCAGCGCCTAGAAGCCTGCAGCTCCGGAGCAGTGGCCGCGCCACGCCGGCCCCAGCGCGC
AGAACCCTGCAGGCCCCGCCCCGTCCGCCCCGGGCGCGCCCGCCATGTCCTACCCGCAGTTTGATACCCCTACT
CCTCGGCTCCCCAGTTCTTGATGGCCACCAACTCCCTGAGCACGTGCTGCGAGTCCGGAGGCCGCACGCTGGCGG
ACTCCGGGCCCCGCCGCTCGGCCAGGCGCCGGTCTACTGCCCGGTCTACGAGAGCCGGCTGCTGGCCACCGCGC
GCCACGAGCTCAACTCGGCCGCGGCGCTGGGCGTCTATGGGGGTCCCTATGGCGGATCGCAGGGCTATGGCAACT
ACGTGACCTACGGCTCGGAGGCGTCCGCCTTCTACTCGCTGAACAGCTTTGATTCCAAGGATGGTTTCGGGATCTG
CGCATGGGGGCTGGCACCAGCCGCTGCCGCCTACTACCCTTACGAGCCAGCTCTGGGCCAGTACCCCTATGACA
GGTATGGAACCATGGACAGCGGCACGCGGCGAAGAACGCCACGCGGAGACCACCAGCACGCTCAAGGCCTGGC
TGCAGGAGCACCGCAAGAACCCTACCCACCAAGGGCGAGAAGATCATGCTGGCCATCATCACCAAGATGACCC
TCACACAGGTCTCCACCTGGTTCGCCAACGCGCGCCGGCGCCTCAAGAAGGAGAACAAGATGACGTGGCCGCCGC
GGAACAAGTGCGCAGACGAGAAGCGGCCCTACGCGGAGGGCGAGGAGGAGGGGGGCGAGGAGGAGCGCGGG
AGGAGCCCCCTCAAGAGCTCCAAGAACGCAGAGCCCGTGGGCAAAGAGGAGAAGGAGCTGGAGCTTAGTGACTTGG
ACGACTTCGACCCGCTGGAAGCAGAGCCGCGCGCTGCGAGCTGAAGCCGCCCTTCCACTCCCTGGACGGCGGT
TGGAGCGCGTCCCCGCCGCGCCGACGGCCCGGTCAAGGAGGCCTCAGGCGCGCTCCGGATGTCTCTGGCCGCGG
GTGGCGGAGCTGCTCTGGACGAGGACCTGGAGAGGGCCCGGAGCTGTCTCCGACGCGCGCGCGGGCCGGAGC
CACTGCCGGGCGCAGAGGGCGGCCCTCAGGTCTGCGAGGCCAAGCTGGGGTTTGTGCCGGCGGGGGCGTTCGGCAG
GCCTGGAGGCTAAGCCGCGCATCTGGTCCCTGGCCACACAGCCACCGCCGCCGCCGCCACCTCCCTGA
GCCAGACTGAGTTTCCGTCTGTGATGCTCAAGCGCCAAGGTCCCGCGGCCCTGCGGCTGTGTCTCCGCGCCCG
CCACGTCCCGTCTGTGGCCCTTCCCCACTCTGGCGCCCTGGACAGGCACCAGGACTCCCCGGTAACCAAGTCTCA
GAAACTGGGTGGACGGGGTCTTCCACGACCCCATCCTCAGGCACAGCACTTTGAACCAGGCCTGGGCCACCGCCA
AGGGCGCCCTCCTGGACCCCGGGCCTCTGGGACGCTCGCTGGGGGCGGGCGGAACGTGCTGACTGCACCCCTGG
CCGCGCCTTTCCGCCTGCCGTGCCCCAGGACGCCCCAGCTGCAGGCGCCCGCCAGGGAGCTGCTCGCCCTGCCCA
AGGCCGGCGGCAAACCTTCTGCGCCTGAGGCGGGCGGGTCCCGAGCCCAGGAGGGAACCCGCGCTCAGGCGGAC
GGCGCCGACTCTTTTCACTGAGTTTCCAGAGGAAGACTAGCGCGGCCACCGCGAAGCCGCCAACCCACCGGAGAG
GGGGCTTCTGAACTTGGACTCCTGGGAACATGGACAAGCCCGCGCTGCCACGCCGGGGCTCCACCGCCTGGGC
CTGAGCCTGACCGGGCCATTCCCAAATTTGGGACGCGGAAGGAGAGGCTCTCGGAGCAGAAGAGGCCAGATACCC
TGAAGCATAAAGTTTACGTCAAAAGTTTACATGGAGAAGGCGGTTCGGTTCTGAAGCGTGGTCTGCTGTCCCCTG
GGCGTGAGGCCTCCTGGGCCTGTCGGGCCTCCGATTTTCATCCTCAGCACGTAATGCTCACCAACAGCACTTGAC
TGAGTTGACTCTTGACACTCTTGACTCCATAATATGATGCTTTTTAAGATGTATGTTACACCAATAATTGCCT
GCTTCAGAGGCTAATATAACAAAACCAATAAAACCGAG

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FIGURE 1541

GACTGCGCGGCGGCAACAGCAGACATGTCGGGGGTCCGGGGCCTGTGCGGGCTGCTGAGCGCTCGGCGCCTGGCG
CTGGCCAAGGCGTGGCCAACAGTGTGCAAACAGGAACCCGAGGTTTTCACTTCACTGTTGATGGGAACAAGAGG
GCATCTGCTAAAGTTTTAGATTCCATTTCTGCTCAGTATCCAGTAGTGGATCATGAATTTGATGCAGTGGTGGTA
GGCGCTGGAGGGGCGAGGCTTGCAGCTGCATTTGGCCTTTCTGAGGCAGGGTTTAATACAGCATGTGTTACCAAG
CTGTTTTCCTACCAGGTCACACACTGTTGCAGCACAGGGAGGAATCAATGCTGCTCTGGGGAACATGGAGGAGGAC
AACTGGAGGTGGCATTCTACGACACCCTGAAGGGCTCCGACTGGCTGGGGGACCAGGATGCCATCCACTACATG
ACGGAGCAGGCCCCCGCCCGCTGGTCGAGCTAGAAAATTATGGCATGCCGTTTAGCAGAACTGAAGATGGGAAG
ATTTATCAGCGTGCATTTGGTGGACAGAGCCTCAAGTTTGGAAAGGGCGGGCAGGCCCATCGGTGCTGCTGTGTG
GCTGATCGGACTGGCCACTCGCTATTGCACACCTTATATGGAAGGTCTCTGCGATATGATACCAGCTATTTTGTG
GAGTATTTTGCTTGGATCTCCTGATGGAGAATGGGAGTGCCGTGGTGTGCATCGCACTGTGCATAGAGGACGGG
TCCATCCATCGCATAAGAGCAAAGAACACTGTTGTTGCCACAGGAGGCTACGGGCGCACCTACTTCAGCTGCACG
TCTGCCCACACCAGCACTGGCGACGGCACGGCCATGATCACCAGGGCAGGCCTTCCTTGCCAGGACCTAGAGTTT
GTTCAAGTTCCACCCTACAGGCATATATGGTGTGTTGTCTCATTACGGAAGGATGTCGTGGAGAGGGAGGCATT
CTCATTAACAGTCAAGGCGAAAGGTTTATGGAGCGATACGCCCTGTGCGGAAGGACCTGGCGTCTAGAGATGTG
GTGTCTCGGTCCATGACTCTGGAGATCCGAGAAGGAAGAGGCTGTGGCCCTGAGAAAGATCACGTCTACCTGCAG
CTGCACCACCTACCTCCAGAGCAGCTGGCCACGCGCCTGCCTGGCATTTCAGAGACAGCCATGATCTTCGCTGGC
GTGGACGTACGAAGGAGCCGATCCCTGTCTCCCCACCGTGCATTATAACATGGGCGGCATTCCACCAACTAC
AAGGGGCAGGTCTTGAGGCACGTGAATGGCCAGGATCAGATTGTGCCCGGCCTGTACGCCTGTGGGGAGGCCGCC
TGTGCCTCGGTACATGGTGGCAACCGCCTCGGGGCAAACCTCGCTCTTGACCTGGTTGTCTTTGGTGGGCATGT
GCCCTGAGCATCGAAGAGTCATGCAGGCCTGGAGATAAAGTCCCTCCAATTAAACCAAACGCTGGGGAAGAATCT
GTCATGAATCTTGACAAATTGAGATTTGCTGATGGAAGCATAAGAACATCGGAACCTGCGACTCAGCATGCAGAAG
TCAATGCAAAATCATGCTGCCGTGTTCCGTGTGGGAAGCGTGTGCAAGAAGGTTGTGGGAAAATCAGCAAGCTC
TATGGAGACCTAAAGCACCTGAAGACGTTTCGACCGGGGAATGGTCTGGAACACGGACCTGGTGGAGACCCTGGAG
CTGCAGAACCTGATGCTGTGTGCGCTGCAGACCATCTACGGAGCAGAGGCACGGAAGGAGTCACGGGGCGCGCAT
GCCAGGGAAGACTACAAGGTGCGGATTGATGAGTACGATTACTCCAAGCCCATCCAGGGGCAACAGAAGAAGCCC
TTTGAGGAGCACTGGAGGAAGCACACCCTGTCCTATGTGGACGTTGGCACTGGGAAGGTCCTCTGGAATATAGA
CCCGTGATCGACAAACTTTGAACGAGGCTGACTGTGCCACCGTCCCGCCAGCCATTCGCTCCTACTGATGAGAC
AAGATGTGGTGTGATGACAGAATCAGCTTTTGTAAATTATGTATAATAGCTCATGCATGTGTCCATGTCATAACTGTC
TTCATACGCTTCTGCACTCTGGGGAAGAAGGAGTACATTGAAGGGAGATTGGCACCTAGTGGCTGGGAGCTTGCC
AGGAACCCAGTGGCCAGGGAGCGTGGCACTTACCTTTGTCCCTTGCTTCATTCTTGTGAGATGATAAACTGGGC
ACAGCTCTTAAATAAAATATAAATGA

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FIGURE 1542

MSGVRGLSRLLSARRLALAKAWPTVLQTGTRGFHFTVDGNKRASAKVSDSISAQYPVVDHEFDVAVVVGAGGAGLR
AAFGLSEAGFNTACVTKLFPTRSHTVAAQGGINAALGNMEEDNWRWHFYDTVKGSDWLGDQDAIHYMTEQAPAAV
VELENYGMPFSRTEDGKIYQRAFGGQSLKFGKGGQAHRCVVADRTGHSLHTLYGRSLRYDTSYFVEYFALDLL
MENGEGRGVIALCIEDGSIHRIRAKNTVVATGGYGRTYFSCTSAHTSTGDGTAMITRAGLPCQDLEFVQFHPTGI
YGAGCLITEGCRGEGGILINSQGERFMERYAPVAKDLASRDVVSRSMTLEIREGRGCGPEKDHVYLQLHHLPEQ
LATRLPGISETAMIFAGVDVTKEPIPVLPVHYNMGGIPTNYKGQVLRHVNGQDQIVPGLYACGEAACASVHGAN
RLGANSLDLVVFGRACALSIEESCRPGDKVPPIKPNAGEESVMNLDKLRFADGSIRTSELRLSMQKSMQNHAAV
FRVGSVLQEGCGKISKLYGDLKHLKTFDRGMVWNTDLVETLELQNLMLCALQTIYGAEARKESRGAHAREDYKVR
IDEYDYSKPIQGQKKPFEEHWRKHTLSYVDVGTGKVTLLEYRPVIDKTLNEADCATVPPAIRSY

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FIGURE 1543

CTGGAGCTGCAGAACCTGATGCTGTGTGCGCTGCAGACCATCTACGGAGCAGAGGCACGGAAGGAGTCACGGGGC
GCGCATGCCAGGGAAGACTACAAGGTGGGCCTTCTCACCACGCCCACCTGCACCTGCCTTTTCCTGCCACCTGGT
GGGACTCAGCCCCACCCCTGCATTTTCTCTGCATTTTCTTTTCGTTGCCCCAAAAGTAAATCCAAAAAATGCCTTT
TTCCCCCTGGTAACTTTGATCCCTGGGTTCTCGCCATCTTCTGGATCACTGTGACCTTTTCCTTGCTTTGGGTC
GGCATCCACTGATGCCAGCAGTGGCATCTCCAAGCCAATGTGCTTTGCTGTTAGAAGGCCAAGGTTAGAAGTGCA
GCTAGAGTGGCAAGACCAGGAAATAAATGCCAGTTTATTAAATAACGAGTAAGCCACCGTTTCAAACCTGCCCTG
TGGAGGAAATGCCAGTTTATTAAATAACGAGTAAGCCACCGTTTCAAACCTGCCCTGTGGAGGAAATGCCAGTTT
ATTAAATAACGAGTAAGCCACCGTTTCAAGCCTGCCCTGTGGAGGAAATGCCAGTTTATTAAATAACGAGTAAGC
C

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FIGURE 1544

TTTACGATATCCAAATAAACTGGACACCATCACATGGACGTGGCAAGGACCTGGAGCGCTGGAAAATCCTGTGGCT
CACGCTGTGTCTAGTTTACAAACCAAGTGGAAATCGAGTTCCTTCCTGTGTACAGCCCTTCTGAGGAGGAGAAGAG
GAACCCCGCGCTGTATGCCAGCAACGTGCGGCGAGTCATGGCCGAGGCCTTGGGTGTCTCCGTGACTGACTACAC
GTTTCGAGGACTGCCAGCTGGCCCTGGCGGAAGGACAGCTCCGTCTCCCGCTGACACTTGCCTTTTAGAATTTGC
CAGGCTCGTGGGGGCTCGGGCTAAAACCAGAAAAGCTTGAAAAAGATCTGGACAGATACTCAGAAAGAGCCAG
GATGAAGGGAGGAGAGAAGATAGGTATTGCGGAGTTTGCGCCTCCCTGGAAGTCCCCGTTTCTGACTTGCTGGA
AGACATGTTTTCTACTGTTTCGACGAGAGCGGCAGCGGCGAGGTGGACCTGCGAGAGTGTGTGGTTGCCCTGTCTGT
CGTCTGCCGGCCGGCCCGGACCCTGGACACCATCCAGCTGGCTTTCAAGATGTACGGAGCGCAAGAGGACGGCAG
CGTCGGCGAAGGTGACCTGTCTGCATCCTCAAGACGGCCCTGGGGGTGGCAGAGCTCACCCTGACCGACCTATT
CCGAGCCATTGACCAAGAGGAGAAGGGGAAGATCACATTGCTGACTTCCACAGGTTTGCAGAAATGTACCCTGC
CTTCGAGAGGAATACCTGTACCCGGATCAGACACATTTGAAAGCTGTGCAGAGACCTCACCTGCGCCAATCCC
AAACGGCTTCTGTGCCGATTTTCAGCCCGGAAAACCTCAGACGCTGGGCGGAAGCCTGTTTCGCAAGAAGCTGGATTA
GGACCCAGGGTTGCGGAGAGACGCGGCCCTCCCGCGTGGACATCACCGCCATGAGCCTCTTTGCGAGTGACCTC
TGGGCTCCGCTCCTCACTCCTGCTGTACAGGCACTGTCTCAGCCCGAGTTCCAGGGGCTCGGGGGCTGTTTGT
ATCTTGTTCCTTTGTGAAGTGTGTTGCAGAACCGACGCTTACTGTGCGAGAATCGGAGGGCGCGCACGCGGATCC
CCCGCTGGCCTGGACCCCGTGGGGTCAGGTTCCCTGCCGGCGGGGGGCACCGGTGCCGCCCGCTGTTTCTCCCA
CGGGGCCCTGGTTTCGAGTCTCTGTACAGCCTCTTCCGGCGGCAGCGTGCACCGGGCGGGCCTCCGTGCACACT
CAGCACACGCTGCCACACAGCGTGCCTTGCGTGTACTCTGGCACGAAACCTGTCTGCCTCTGTGGATCCACA
GCCTGGCAGAGCCGAGCCGTACCTGATTTTTTCAGTGTCTTACCTGTGTGCTGGAGCTCATGAGTATTTTATAA
ACTCCATTTAGGTACTTCAGGAAACATGCAGCATTTTTTAAAAATGAAAATTGTTTTCTACTTCATTTTTCT
TTTAGAGTCAAAGGATATTTATTTATAGGCCCTTTTTTTTTTAATATAGAATCTGAGGCTGTTTGGGCTTTGACT
TAAATTTCCATCAGGCCTCTCTCCAGCAGTAATCCCTCTCCTTCCGCTGGGTCCCCCTGGGGAGGTGTGAACCTCA
AGGGCCTAGCCCCAAAACACTTTTTCTGCTTTTCTTAATCCTTTTCCAGTCCCCCTTTTTTTTATAAACGTTGGC
AGTTTGATGTTTCTGTTTCGGCATAACGTAATCCATTTCACTGTAGCCTAAACTCCAGTCCGAGGTTGGATATTG
TTCAAATGAGCAGGGCCCGAGCTGGAAGCGCAAGGCAGCCGCCCGCTGCCGCTCCTCCCTTGCCCTCAGGCCAG
GTCCCTGCTGGAAGCGGCTGCATCTTCTGTAGCCCTGGTTTCCATGGTGACTGGCGTCACGCTGCCACCCGAG
TATGGCTGACCTTCTGCAGAGAGAGAGCCGAGTCTTTTGTCTGTGGAAGGAGACGCTGGGCTGTGCGGTGCG
GAGGGTGATGAGGATGTCTGGTGACAGCCGTGCGGACACCACTCCTCTCTGCAGCACTGCCTCCAGCGCCAGGG
TCGCGGGGCACATCCCACTGAGAGCGGGGTCTGCCCCATCTTAGAGTCAAAGGCAGAGGGGCTTCCAGGCCCTG
GATGGGGTATTTTGGTGTACCTGAAGTCCCTCTGACATCACCTTGTTTCATCATTTTTTATGACAGAATTAGAA
ACCCATCCTTCAAGCACAATAATCATCACAGACTTGAGTTTGCTTCCTAAAGCAAAGGCTCCGGGTTTGTGTTGGA
AAATTTTTTTGATTTCTGAAATGAATTGATTTTTATATTTGGGGCATCTCTATAGAAAGTGACCACCAAGGCCAG
TAAGTACGGGAAAAAATGTTTACTAACTTCTCAGAGATTGCTGATACGCGTTTCTCCACTGACAGACATTTAAA
AACAACCTTCAGCTCCGTTTCAATCAATCACCTCGACTTGTTTTTTAGCATGGACACTGCCAGCAGGACAGACAG
GGATGGAGTAAACCGAAGTCAATTTAGGGCTCTTGGCGTGTGGACACAGAAGAAATCCTAGTGCAGCCTTTGG
TAGCTAACAGTCACTGATTTTATAATTGGAGAATGCGTAAAGATTCATTTTTCAAGGAGAAGAGCCTGCAATGG
CCAATGAAGGAGGTAAATAAACTAAGATATTCGAGGGGAAGGGACCCAGGCCACCTCCCTTCCGCAGGTCTGCAG
ATGAAGGGTTTTTTGAATGAAATGCCACTGTGCATTTTCAGAAAAAAAATCTCTGATAAACAGACTTTGAATGG
ATGTTTGTTCCTCCTGATTCTCTTTCTCTTCGTGGCGACTTAGAGTTGGCGGATATTCGGAAGTGTGAATGTAC
ATAGCGTTGAGTTAAACCCCTTGTGTGTGAGACAGGACGCGCGGGCCCTGGTGGCCTGGGGGCCAGACCCGTG
GGCAGGTGGGGCATGGGCCCTGGCCTGCGGGGACCTGCTGGGTGTGAGGGCAGAGGGAGGGTTGCCATGAAGGA
ACTTGGGATTTTCAATGGAATAAGTAAACATAAAGTCTATACTTGGG

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FIGURE 1545

GGCGGCTGAGAGGCGGGCGGGCGGGGCGCGGGGCGCGGGGCGGCC**ATGT**GAGCGGCGCGAGCTCCTTCACCA
GCTTGGTGGTGGGCGTGTTCGTGGTCTACGTGGTGCACACCTGCTGGGTCATGTACGGCATCGTCTACACCGCC
CGTGCTCCGGCGACGCCAACTGCATCCAGCCCTACCTGGCGCGGGCGGCCAAGCTGCAGCTGAGCGTGTACACCA
CGACGAGGTCCCACCTGGGTGCTGAGAACAACATCGACCTGGTCTTGAATGTGGAAGACTTTGATGTGGAGTCCA
AATTTGAAAGGACAGTTAATGTTTCTGTACCAAAGAAAACGAGAAACAATGGGACGCTGTATGCCTACATCTTCC
TCCATCACGCTGGGGTCCCTGCCGTGGCAGACGGGAAGCAGGTGCACCTGGTCAGTCCTCTGACCACCTACATGG
TCCCCAAGCCAGAAGAAATCAACCTGCTCACCGGGGAGTCTGATACACAGCAGATCGAGGCGGAGAAGAAGCCGA
CGAGTGCCCTGGATGAGCCAGTGTCCACTGGCGACCGCGGCTGGCGCTGAACGTGATGGCGGACAACTTTGTCT
TTGACGGGTCCCTCCCTGCCGTGCCGATGTGCATCGGTACATGAAGATGATCCAGCTGGGGAAAACCGTGCATTACC
TGCCCATCCTGTTTCATCGACCAGCTCAGCAACCGCGTGAAGGACCTGATGGTCATAAACCGCTCCACCACCGAGC
TGCCCTCACCGTGTCTACGACAAGGTCTCACTGGGGCGGCTGCGCTTCTGGATCCACATGCAGGACGCCGTGT
ACTCCCTGCAGCAGTTCGGGTTTTTCAGAGAAAGATGCTGATGAGGTGAAAGGAATTTTTGTAGATACCAACTTAT
ACTTCTGGCGCTGACCTTCTTTGTGCGAGCGTTCCATCTTCTCTTTGATTTCTGGCCTTTAAAAATGACATCA
GTTTCTGGAGAAGAAGAAGAGCATGATCGGCATGTCCACCAAGGCAGTGCTCTGGCGCTGCTTCAGCACCGTGG
TCATCTTTCTGTTCCCTGCTGGACGAGCAGACGAGCCTGCTGGTGGTCCCGGCGGGTGTGGAGCCGCCATTG
AGCTGTGGAAAGTGAAGAAGGCATTGAAGATGACTATTTTTTGGAGAGGCCTGATGCCCGAATTTAGTTTGGCA
CTTACAGCGAATCTGAGAGGAAAACCGAGGAGTACGATACTCAGGCCATGAAGTACTTGTACATCCTGCTGTACC
CTCTCTGTGTCGGGGGTGCTGTCTATTCACTCCTGAATATCAAATATAAGAGCTGGTACTCCTGGTTAATCAACA
GCTTCGTCAACGGGGTCTATGCCTTTGGTTTTCTCTTCATGCTGCCCCAGCTCTTTGTGAAGTACAAGTTGAAGT
CAGTGGCACATCTGCCCTGGAAGGCCTTACCTACAAGGCTTTCAACACCTTCATTGATGACGTCTTTGCCTTCA
TCATCACCATGCCCACGTCTCACCGGCTGGCCTGCTTCCGGGACGACGTGGTGTCTGGTCTACCTGTACCAGC
GGTGGCTTTATCCTGTGGATAAACGCAGAGTGAACGAGTTTGGGGAGTCCACGAGGAGAAGGCCACGCGGGCGC
CCCACACGGAC**TGA**AGGCCGCCCGGGCTGCCGCCAGCCAAGTGCAACTTGAATTGTCAATGAGTATTTTTGGAAG
CATTTGGAGGAATTCCTAGACATTGCGTTTTCTGTGTTGCCAAAATCCCTTCGGACATTTCTCAGACATCTCCCA
AGTTCCCATCACGTCAGATTTGGAGCTGGTAGCGCTTACGATGCCCCACGTGTGAACATCTGTCTTGGTCACAG
AGCTGGGTGCTGCCGGTCACCTTGAGCTGTGGTGGCTCCCGGCACACGAGTGTCCGGGGTTCCGGCCATGTCTCA
CGCGGGCAGGGGTGGGAGCCCTCACAGGCAAGGGGGCTGTTGGATTTCCATTTAGGTGGTTTTCTAAGTGCTCC
TTATGTGAATTTCAAACACGTATGGAATTCATTCCGCATGGACTCTGGGATCAAAGGCTCTTTCCTCTTTTGT
GAGAGTTGGTTGTTTTAAAGCTTAATGTATGTTTCTATTTTAAAAATAAAAAAAAAAAAAAAAAA

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FIGURE 1546

MWSGRSSFTSLVVGVFVVYVVHTCWVMYGIVYTRPCSGDANCIQPYLARRPKLQLSVYTTTRSHLGAENNIDLVL
NVEDFDVESKFERTVNVSVPPKTRNNGTLYAYIFLHHAGVLPWHDGKQVHLVSPLTTYMVPKPPEEINLLTGESDT
QQIEAEKKPTSALDEPVSHWRPRLALNVMADNFVFDGSSLPADVHRMCKMIQLGKTVHYLPILFIDQLSNRVKDL
MVINRSTTELPLTVSYDKVSLGRLRFWIHMQDAVYSLQQFGFSEKDADEVKGIFVDTNLYFLALTFFVAAFHLLF
DFLAFKNDISFWKKKSMIGMSTKAVLWRCFSTVVIFLFLLEQTSLLVLVPAGVGAAIELWKVKKALKMTIFWR
GLMPEFQFGTYSESERKTEEYDTQAMKYLSYLLYPLCVGGAVYSLNLIKYSWYSWLINSEVNGVYAFGFLFMLP
QLFVNYKLKSAHLWPKAFTYKAFNTFIDDVFAFIITMPTSHRLACFRDDVVFLVYLYQRWLYPVDKRRVNEFGE
SYEEKATRAPHTD

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FIGURE 1547

CTTCCCTTTTGCGGCTATCACCGAAGCAGGAGTGGCCAAAATGAAGTTTAAATCCCTTTGTGACTTCCGACCGAAG
CAAGAATCGCAAAAGGCATTTCAATGCACCTTCCCACATTGGAAGGAAGACTATGTCTTCCCCTCTTTCCAAAGA
GCTGAGACAGAAGTACAACGTGTGATCCATGCCCATCCGAAAGGATGATGAAGTTCAGGTTGTACGTGGACACTA
TAAAGGTCAGCAAATTGGCAAAGTAGTCCAGGTTTACAGGAAGAAATATGTTATCTACATTGAACGGGTGCAGCG
GGAAAAGGCTAATGGCACAACTGTCCACGTAGGCATTACCCCAGCAAGGTGGTTATCACTAGGCTAAAACCTGGA
CAAAGACTGTGAAAAGATCCTTGAACGGAAAGCCAAATCTTGCCAAGTAGGAAAGGAAAAGGGCAAATACAAGGA
AGAAACAATTGAGAAGATGCAGGAATAAAGTAATCTTATATACAAGCTTCGATTAAAACCTGAAACAAAGAAAAA

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FIGURE 1548

CCAGAACACAGGTGTCATGAAACTACCCCTAAAAGCCAAAATGGGAAAGGAAAAGACTCATATCAACATTGTCTG
TCATTGGACACGTAGATTCCGGCAGGATGTCTACAAAATTGGTGGTATTGGTAGTGTTCTGTTGGCCGAGTGGAG
ACTGGTATTCTCAAACCCGGTATGGTGGTCACCTTTGCTCCAGTCAACGTTACAACAGAAGTAAAATCTGTCTGAA
ATGCACCATGAAGCTTTGGGTGAAGCTCTTCCTGGGGACAGTGTGGGCTTCCATGTCAAGAATGTGTCTGTCAAG
GATGTTTCGTTCGTGGCAACGTTGCTGGTGACAGCAAAAATGACCCACCAATGGAAGCAGCTGGCTTCACTGCTCAG
GTGATTATCCTGAACCATCCAGGCCAATAAGCGCTGGCTATGCCCCTGTATTGGATTGCCACACGGCTCATATT
GCATGCAAGTTTGCTGAGCTGAAGGAAAAGATTGATCGCCGTTCTGGTAAAAAGCTGGAAGATGGCCCTAAATTC
TTGAAGTCCGGTGATGCTGCCATTGTTGATATGGTTTCTGGCAAGCCCATGTGTGCTGAGAGCTTCTCAGACTAT
CCACCTTTGGGTGCTTTGCTGTTTCGTGATATGAGACACACAGTTGCGGTGGGTGTCATCAAAGCAGTGGACAAG
AAGGCTGCTGGAGCTGGCAAGGTCACCAACTCTGCCAGAAAGCTCAGATGGCTAAATGAATATTATCCCTAATA
C

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FIGURE 1549

CGACACAGTAGCATTGTGCCAATTTCTGGTTGGAATGGTAACAACATGCTGGAGCCAAGTGCTAACATGCCTTG
GTTCAAGGGATGGAAAGTCACCCGTAAGGATGGCAATGCCAGTGGAACCATGCTGCTTGAGGCTCTGGACTGCAT
CCTACCACCAACTCGTCCAAGTACAGCCCTTGCGCCTGCCTCTCCAGGATGTCTACAAAATTGGTGGTATTGG
TAGTGTTCTGTGGCCGAGTGGAGACTGGTATTCTCAAACCCGGTATGGTGGTCACCTTTGCTCCAGTCAACGT
TACAACAGAAGTAAAAATCTGTCGAAATGCACCATGAAGCTTTGGGTGAAGCTCTTCCTGGGGACAGTGTGGGCTT
CCATGTCAAGAATGTGTCTGTCAAGGATGTTCTGTCGTGGCAACGTTGCTGGTGACAGCAAAAATGACCCACCAAT
GGAAGCAGCTGGCTTCACTGCTCAGGTGATTATCCTGAACCATCCAGGCCAAATAAGCGCTGGCTATGCCCCTGT
ATTGGATTGCCACACGGCTCATATTGCATGCAAGTTTGTGAGCTGAAGGAAAAGATTGATCGCCGTTCTGGTAA
TATGGTTCCTGGCAAGCCCATGTGTGCTGAGAGCTTCTCAGACTATCCACCTTTGGGTCGCTTTGCTGTTCTGTGA
TATGAGACACACAGTTGCGGTGGGTGTCATCAAAGC

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FIGURE 1550

GCCAAAATGGGAAAAGGAAAAGACTCATATCAACATTGTCGTCATTGGACACGTAGATTTCGGGCAAGTCCACCACT
ACTGGCCATCTGATCTATAAATGCAGTAGCATCGACAAAAGAACCATTGAAAAATTTGAGAAGGAGACTGCTGAG
ATGGGAAAGGGCTCTTTCAAGTATGGCTGGGTCTTGGATAAACTGAAAGCTGAGCGTGAACGTGGTATCACCATT
GATATCTCCTTGTGGAATTTGAGACCAGCAAGTACTATGTGACTATCACTGATGCTCCAGGACACAGAGACTTC
ATCAAAAACATGATTACAGGGACATCTCAGGCTGACTGTGCTGTCCCGATTGTTGCTGCTGGTGTGGTGAATTT
GAAGCTGGTATCTCTAAGAATGGGCAGACCCGAGAGCATGCCCTTCTGGCTTACACACTGGGTGTGAAACAATA
ATTGTTGGTGTAAACAAAATGGATTCCACTGAGCCACCCTACAGCCAGAAGAGATATGAGGAAATTGTTAAGGAA
GTCAGCACTTACATTAAGAAAATTGGCTACAACCCCGACACAGTAGCATTGTGCCAAATTCTTGAAGTCCGGTG
ATGCTGCCATTGTTGATATGGTTCCTGGCAAGCCCATGTGTGCTGAGAGCTTCTCAGACTATCCACCTTTGGGTC
GCTTTGCTGTTTCGTGATATGAGACACACAGTTGCGGTGGGTGTC

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FIGURE 1551

AAATTGTTAAGGAAGTCAGCACTTACATTAAGAAAATTGGCTACAACCCCGACACAGTAGCATTTGTGCCAATTT
CTGGTTGGAATGGTAACAACATGCTGGAGCCAAGTGCTAACATGCCTTGGTTCAAGGGATGGAAAGTCACCCGTA
AGGATGGCAATGCCAGTGAACCATGCTGCTTGAGGCTCTGGACTGCATCCTACCACCAACTCGTCCAAGTACA
AGCCCTTGCGCCTGCCTCTCCAGGATGTCTACAAAATTGGTGGTATTGGTAGTGTTCCTGTTGGCCGAGTGGAGA
CTGGTATTCTCAAACCCGGTATGGTGGTCACCTTTGCTCCAGTCAACGTTACAACAGAAGTAAAATCTGTCGAAA
TGCACCATGAAGCTTTGGGTGAAGCTCTTCCTGGGGACAGTGTGGGCTTCCATGTCAAGAATGTGTCTGTCAAGG
ATGTTTCGTTCGTGGCAACGTTGCTGGTGACAGCAAAAATGACCCACCAATGGAAGCAGCTGGCTTCACTGCTCAGG
TGATTATCCTGAACCATCCAGGCCAAATAAGCGCTGGCTATGCCCCTGTATTGGATTGCCACACGGCTCATATTG
CATGCAAGTTTGCTGAGCTGAAGGAAAAGATTGATCGCCGTTCTGGTAAAAAGCTGGAAGATGGCCCTAACCACC
TTTGGGTCGCTTTGCTGTTCGTGATATGAGACACACAGTTGCGGTGGG

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FIGURE 1552

CTTTTTCACAACGGGTTTGCCGCCAGAACACAGGTGTCATGAAAAC TACCCCTAAAAGCCAAAATGGGAAAGGAA
AAGACTCATATCAACATTGTCGTCATTGGACACGTAGATTCTGGGCAAGTCCACCACTACTGGCCATCTGATCTAT
AAATGCAGTAGCATCGACAAAAGAACCATTGAAAAATTTGAGAAGGAGACTGCTGAGATGGGAAAGGGCTCTTTC
AAGTATGGCTGGGTCTTGGATAAACTGAAAGCTGAGCGTGAACGTGGTATCACCATTGATATCTCCTTGTGGAAA
TTTGAGACCAGCAAGTACTATGTGACTATCACTGATGCTCCAGGGATGTCTACAAAATTGGTGGTATTGGTAGTG
TTCCTGTTGGCCGAGTGGAGACTGGTATTCTCAAACCCGGTATGGTGGTCACCTTTGCTCCAGTCAACGTTACAA
CAGAAGTAAAATCTGTCGAAATGCACCATGAAGCTTTGGGTGAAGCTCTTCCTGGGGACAGTGTGGGCTTCCATG
TCAAGAATGTGTCTGTCAAGGATGTTTCGTCGTGGCAACGTTGCTGGTGACAGCAAAAATGACCCACCAATGGAAG
CAGCTGGCTTCACTGCTCAGGTGATTATCCTGAACCATCCAGGCCAAATAAGCGCTGGCTATGCCCCGTGATTGG
ATTGCCACACGGCTCATATTGCATGCAAGTTTGCTGAGCTGAAGGAAAAGATTGATCGCCGTTCTGGTAAAAAGC
TGGAAGATGGCCCTAAATTCTTGAAGTCCGGTGATGCTGCCATTGTTGATATGGTTCCTGGCAAGCCCATGTGTG

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FIGURE 1553

CTTTTTCACAACGGGTTTGCCGCCAGAACACAGGTGTCATGAAAACCTACCCCTAAAAGCCAAAATGGGAAAGGAA
AAGACTCATATCAACATTGTCGTCATTGGACACGTAGATTTCGGGCAAGTCCACCACTACTGGCCATCTGATCTAT
AAATGCAGTAGCATCGACAAAAGAACCATTGAAAAATTTGAGAAGGAGACTGCTGAGATGGGAAAGGGCTCTTTC
AAGTATGGCTGGGTCTTGGATAAACTGAAAGCTGAGCGTGAACGTGGTATCACCATTGATATCTCCTTGTGGAAA
TTTGAGACCAGCAAGTACTATGTGACTATCACTGATGCTCCAGGACACAGAGACTTCATCAAAAACATGATTACA
GGGACATCTCAGGCTGACTGTGCTGTCCCGATTGTTGCTGCTGGTGTCTTCTCAAACCCGGTATGGTGGTCACCT
TTGCTCCAGTCAACGTTACAACAGAAGTAAAATCTGTGCGAAATGCACCATGAAGCTTTGGGTGAAGCTCTTCCTG
GGGACAGTGTGGGCTTCCATGTCAAGAATGTGTCTGTCAAGGATGTTTCGTCGTGGCAACGTTGCTGGTGACAGCA
AAAATGACCCACCAATGGAAGCAGCTGGCTTCACTGCTCAGGTGATTATCCTGAACCATCCAGGCCAAATAAGCG
CTGGCTATGCCCCGTGATTGGATTGCCACACGGCTCATATTGCATGCAAGTTTGCTGAGCTGAAGGAAAAGATTG
ATCGCCGTTCTGGTAAAAAGCTGGAAGATGGCCCTAAATTCTTGAAGTCCGGTGATGCTGCCATTGTTGATATGG
TTCCTGGCAAGCCC

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FIGURE 1554

CTTTTTCACAACGGGTTTGCCGCCAGAACACAGGTGTCATGAAAACCTACCCCTAAAAGCCAAAATGGGAAAGGAA
AAGACTCATATCAACATTGTCGTCATTGGACACGTAGATTCGGGCAAGTCCACCCTACTGGCCATCTGATCTAT
AAATGCAGTAGCATCGACAAAAGAACCATTGATATCTCCTTGTTGGAAATTTGAGACCAGCAAGTACTATGTGACT
ATCACTGATGCTCCAGGACACAGAGACTTCATCAAAAACATGATTACAGGGACATCTCAGGCTGACTGTGCTGTC
CCGATTGTTGCTGCTGGTGTGGTGAATTTGAAGCTGGTATCTCTAAGAATGGGCAGACCCGAGAGCATGCCCTT
CTGGCTTACACACTGGGTGTGAAACAATAATTGTTGGTGTTAACAAAATGGATTCCACTGAGCCACCCTACAGC
CAGAAGAGATATGAGGAAATTGTTAAGGAAGTCAGCACTTACATTAAGAAAATTGGCTACAACCCCGACACAGTA
GCATTTGTGCCAATTTCTGGTTGGAATGGTAACAACATGCTGGAGCCAAGTGCTAACATGCCTTGGTTCAAGGGA
TGGAAGTCACCCGTAAGGATGGCAATGCCAGTGGGAACCATGCTGCTTGAGGCTCTGGACTGCATCCTACCACCA
ACTCGTCCAACGACAAGCCCTTGC GCCTGCCTCTCCAGGATGTCTACAAAATTGGTGGTATTGGTAGTGTTCTT
GTTGGCCGAGTGGAGACTGGTATTCTCAAACCCGGTATGGTGGTCACCTTTGCTCCAGTCAACGTTACAACAGAA
GTTGTGGGCTTCCATGTCAAGAATGTGTCTGTCAAGGATGTTCTGTCGTGGCAACGTTGCTGGTGACAGCAAAAAT
GACCCACCAATGGAAGCAGCTGGCTTCACTGCTCAGGTGATTATCCTGAACCATCCAGGCCAAATAA

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FIGURE 1555

TATAAATGCAGTAGCATCGACAAAAGAACCATTGAAAAATTTGAGAAGGAGACTGCTGAGATGGGAAAGGGCTCT
TTCAAGTATGGCTGGGTCTTGGATAAACTGAAAGCTGAGCGTGAACGTGGTATCACCATTGATATCTCCTTGTTGG
AAATTTGAGACCAGCAAGTACTATGTGACTATCACTGATGCTCCAGGACACAGAGACTTCATCAAAAACATGATT
ACAGGGACATCTCAGGCTGACTGTGCTGTCCCGATTGTTGCTGCTGGTGTGGTGAATTTGAAGCTGGTATCTCT
AAGAATGGGCAGACCCGAGAGCATGCCCTTCTGGCTTACACACTGGGTGTGAAACAACATAATTGTTGGTGTAAAC
AAAATGGATTCCACTGAGCCACCCTACAGCCAGAAGAGATATGAGGAAATTGTTAAGGAAGTCAGCACTTACATT
AAGAAAATTGGCTACAACCCCGACACAGTAGCATTTGTGCCAATTTCTGGTTGGAATGGTAACAACATGCTGGAG
CCAAGTGCTAACATGCCTTGGTTCAAGGGATGGAAAGTCACCCGTAAGGATGGCAATGCCAGTGGAACCATGCTG
CTTGAGGGCTCCAGTCAACGTTACAACAGAAGTAAATCTGTGCGAAATGCACCATGAAGCTTTGGGTGAAGCTCT
TCCTGGGGACAGTGTGGGCTTCCATGTCAAGAATGTGTCTGTCAAGGATGTTTCGTCTGGCAACGTTGCTGGTGA
CAGCAAAAATGACCCACCAATGGAAGCAGCTGGCTTCACTGCTCAGG

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FIGURE 1556

GTCGGCGTGTCGAGTGGCTCTTCCTGGCTGCTGAGGCGGGTTAAGGTCTGAGGGTCTTGTGGGGCCACGGCGCTG
ATCACCAGGTGTTTGGCTTGGTCGGTTCCTATTTCTCGCCTGGCAATGGCGACGTACACCTGCATAACTTGCCGG
GTGGCGTTCCGCGACGCGGACATGCAGCGGGCCCACTATAAGACGGACTGGCACCGCTACAACCTGCGGCGGAAG
GTGGCCAGCATGGCCCCAGTGACCGCCGAGGGCTTCCAGGAGCGAGTGCGGGCGCAGCGGGCCGTGCGGGAGGAG
GAGAGCAAGGGCTCGGCCACCTACTGCACCGTTTGCACTAAGAAGTTTGCCTCTTTCAACGCCTACGAGAACCAC
CTCAAGTCCCGGCGTCACGTTGAGCTGGAGAAGAAGGCCGTGCAGGCAGTGAATCGGAAAGTGGAGATGATGAAT
GAAAAGAAGTTGGAGAAAGGACTGGGCGTGGACAGTGTGGACAAGGATGCCATGAACGCGGCCATCCAGCAGGCC
ATCAAGGCCAGCCGTCCATGTCTCCAAGAAGGCGCCCCCAGCGCCTGCAAAGGAGGCCAGGAATGTCGTGGCC
GTGGGTACTGGTGGCCGTGGGACCCACGACCGAGACCCGAGTGAGAAACCACCCCGGCTCCAGTGGTTTGAACAG
CAGGCGAAGAAGTTGGCAAAGCAGCAGGAGGAGGACAGCGAGGAGGAGGAAGAGGACCTGGATGGAGACGATTGG
GAAGATATTGATTCTGATGAAGAATTGGAATGTGAGGATACTGAAGCAATGGACGATGTGGTGGAGCAGGATGCA
GAGGAGGAAGAGGCTGAGGAAGGCCACCCCTTGGTGCCATCCCTATCACGGACTGCTTATTTTGTTCCTCAT
TCCAGCTCGCTGATGAAGAATGTGGCTCACATGACCAAAGACCACAGTTTCTTTATTCCCTGATATAGAATATCTT
TCAGATATTAAGGGACTGATTAAATACTTGGGAGAGAAAAGTTGGTGTGGCAAGATTTGCTTGTGGTGCAACGAG
AAAGGGAAGTCCTTCTACTCCACAGAAGCTGTACAGGCACATATGAATGACAAAAGCCACTGTAAGCTCTTCACA
GATGGCGATGCTGCTTTGGAATTTGCAGACTTCTATGATTTTAGGAGTAGCTATCCAGATCACAAGGAAGGGGAG
GACCCCAATAAGGCTGAGGAGTTGCCCTCAGAAAAGAACTTGAATATGATGATGAAACCATGGAATTGATTCTG
CCTTCTGGTGCCAGAGTGGGTGATCGCTCCTTGATGAGATACTACAAACAGCGATTTGGCTTGTCAAGAGCTGTG
GCAGTTGCCAAAAATCGGAAGGCCGTGGGCCGAGTACTTCAGCAGTACAGAGCCCTGGGATGGACTGGCAGCACA
GGAGCGGCTCTTATGCGAGAGCGAGACATGCAGTATGTCCAAGGATGAAATCAAATGGATGCTGAAGACAGGA
ATGAAGAACAATGCCACCAAGCAGATGCACTTTCGGGTCCAAGTGAGATTCTGAGAGTCTGCTGGGATTGAGCAA
TCATCTCCTGCCCAAGTTTCCTCCTTGCCCTGAGGACCAGTGAAAGACAGATCATAGGAGAGACCCCTTTTGCTGC
TACTTCATTGCTTCTGACCTAATAATAAAAGTTAGAACCAT

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FIGURE 1557

GAACTCCAAGATGGGAGGCAAGCTCAGCAAGAAGAAGAAGGGCTACAATGTGAACGACGAGAAAGCCAAGGAGAA
AGACAAGAAGGCCGAGGGCGCGGCGACGGAAGAGGAGGGGACCCCGAAGGAGAGTGAGCCCCAGGCGGGCCGCAGA
GCCCCGCCGAGGCCAAGGAGGGCAAGGAGAAGCCCGACCAGGACGCCGAGGGCAAGGCCGAGGAGAAGGAGGGCGA
GAAGGACGCGGCGGCTGCCAAGGAGGAGGCCCCGAAGGCGGAGCCCGAGAAGACGGAGGGCGCGGCAGAGGCCAA
GGCTGAGCCCCCGAAGGCGCCGAGCAGGAGCAGGCGGCCCCCGGCCCCGCTGCGGGCGGCGAGGCCCCCAAAGC
TGCTGAGGCCGCGCGGCCCCGCGGAGAGCGCGGCCCCCTGCCGCCGGGAGGAGCCCAGCAAGGAGGAAGGGGA
ACCCAAAAAGACTGAGGCGCCCGCAGCTCCTGCCGCCAGGAGACCAAAGTGACGGGGCCCCAGCTTCAGACTC
AAAACCCGGCAGCTCGGAGGCTGCCCCCTCTTCCAAGGAGACCCCGCAGCCACGGAAGCGCCTAGTTCCACACC
CAAGGCCCAGGGCCCCGAGCCTCTGCAGAAGAGCCCCAAGCCGGTGGAGGCCCGGCAGCTAATTCCGACCAAAC
CGTAACCGTGAAAGAGTGACAAGGACAGCCTATAGGAAAAACAATACCACTTAAACAATCTCCTCTCTCTCTCT
CTCTCTCTCTCTATCTCTCTCTCTATCTCCT
ACTAATTGTTTCAAATTGGAAGTAATGATATGTATTGCCCAAGGAAAAATACAGGATGTTGTCCCATCAAGGGA
GGGAGGGGGTGGGAGAATCCAAATAGTATTTTTGTGGGGAAATATCTAATATACCTTCAGTCAACTTTACCAAGA
AGTCCTGGATTTCCAAGATCCGCGTCTGAAAGTGACGTACATCGTTTGTACCTGAAACTGCCGCCACATGCACTC
CTCCACCGCTGAGAGTTGAATAGCTTTTCTTCTGCAATGGGAGTTGGGAGTGATGCGTTTGATTCTGCCACAGG
GCCTGTGCCAAGGCAATCAGATCTTTATGAGAGCAGTATTTCTGTGTTTTCTTTTTAATTTACAGCCTTTCTTA
TTTTGATATTTTTTTAATGTTGTGGATGAATGCCAGCTTTCAGACAGAGCCCACTTAGCTTGTCACATGGATCT
CAATGCCAATCCTCCATTCTTCTCTCCAGATATTTTTGGGAGTGACAAACATTCTCTCATCCTACTTAGCCTAC
CTAGATTTCTCATGACGAGTTAATGCATGTCCGTGGTTGGGTGCACCTGTAGTTCTGTTTATTGGTCAGTGAAA
TG

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FIGURE 1558

MGGKLSKKKKGYNVNDEKAKEKDKKAEGAATEEEGTPKESEPQAAAEPAEAKEGKEKPDQDAEGKAEEKEGEKDA
AAAKEEAPKAEPEKTEGAAEAKAEPKAPQEQAAPGPAAGGEAPKAAEAAAAPAESAAPAAGEEPSKEEGEPKK
TEAPAAPAAQETKSDGAPASDSKPGSSEAAPSSKETPAATEAPSSTPKAQGPAASAEEPKEVEAPAAANSQTVTV
KE

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FIGURE 1559

CGAGAGTCGTCGGGGTTTCCTGCTTCAACAGTGCTTGGACAGAACCTGGCGCTCGTCCCCACACCGGCCGGCTG
CCCATAGCCAGCCCTCCGTCACCTCCTCACCCGCAGCCGCTCTCCTTAGTCGCCGCCATGACGACCGCGTCCAC
CTCACAGGTGCGCCAGGACTACCACCAGGACTAAAGGCCGCCATCAACCGCCAGATCAACCTGGAGCTCTACGCC
TCCTGCGTTTACCTGTCCATGTCTTACTACTTTGACCGCGATGATGTGGCTTTGAAGAACTTTGCCAAATACTTT
CTTCACCAATCTCATGAGGAGAGGGAACATGCTGAGAACTGATGAAGCTGCAGAACCAAGGAGGTGGCCGAATC
TTCCTTCAGGATATCAAGAAACCGGACTGTGATGACTGGGAGAGCGGGCTGAATGCGATGGAGTGTGCATTACAT
TTGGAAAAAATGTGAATCAGTCACTACTGGAAGTGCACAACTGGCCACTGACAAAAATGACCCCCATTGTGT
GACTTCATTGAGACACATTACCTGAATGAGCAGGTCAAAGCCATCAAAGAATTGGGTGACCACATGACCAACTTG
TGCAAGATGGGAGCACCCGAATCTAGCTTGGCGGAATATCTCTTTGACCAGCACACCCTGGGAGACAGTGATAAT
GAAAGCTAAGCCTCAGGCTAATTTCCCCATAGCCGTGGGGTGACTTCCCTGGTCACCAAGG

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FIGURE 1560

MSYYFDRDDVALKNFAKYFLHQSHEEREHAEKLMKLQNOGGGRIFLQDIKKPCDDWESGLNAMECALHLEKNVN
QSLLELHKLATDKNDPHLCDFIETHYLNEQVKAIKELGDHMTNLCKMGAPESSLAEYLFQHTLGSDNES

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FIGURE 1561

ATGCCCAAACGATCAGTGTGCGTGTGACCACCATGGACGCAGAGCTGGAGTTTACCATCCAGCCCAACACCACC
GGGAAGCAGCTATTTGACCAGAAGGTGACTGCCCAGGAAGTGC GGAAGGAAAGCCCCCTGCTCTTTAAGTTCAGT
GCCAAGTTCTACCCTGAGGATGTGTCCGACCGAGGAATTGATTAGGACACCACTCAGCGTCTGTTCCCTTCTGCA
ATGAAAGAGGGCATTCTCAGTGATGATATTTACTGCCGGCCTGAGACTGCTGTGCTGCTGGCCTCCCATGCTGTC
CAGTCTAAGTATGGGAACCTCAGTAAGGAGGTGCATAAGTCTGGCTACCTGGCCGGAGACGAGTTGCTCCCACAG
AGAGTCCTGGAACAGCACAAACTCAGCAAGGACCAGTGGGAGGAGCGGATCCAGGTGTGGCATGAGGAACACCGT
GGCATGCTCAGGGAGGATGCTGTCTTGGAGTATCTGAAGATTGCTCAAGATCTGGAGATGTATGGTGTAAGTAC
TTCAGCATCAAGAAAAAGAAAGGCTCAGAGCTGTGGCTGGGGGTGGATGCACTGGGTCTCAACATCTATGAGCAG
CATGACAGACTAACTCCCAAGATAGGCTTTCCTTGGAGTGAAATCAGGAGCATTTCCTTTCAATGATAAGAACTTT
GTCATCAAGCCCATTGACAAAAGAGCCCCGGACTTTGTCTTCTATGCTCCCTGGCTGCAGATTAACAAGCGGATC
TTGGCCTTGTGCATGGGGAACCGTGAACATAACATGCGCCGTCGCAAGCCTGACACCATTGAGGTGCAGCAGATG
AAGGCACGGGCCCGGGAGGAGAAGCACCAGAAGCAGATGGAGCGTGCTATGCTGGAAAATGAGAAGAAGCGTGAA
ATGGCAGAAAAGCAGAAAAGAGAAGATTGAACGGGAGAAGGAGCTGATGGGGAGGCTGAAGCAGATCGAGGAACAG
ACTAAGAAGGCTCAGCAAGAAGTGAAGAAGCAGACCCGTAGGGCTCTGGAACCTGGGAAGGAACGGAAGCATGCC
CAGAGCGAGGCTGAAAAGCTGGCCAAGGAGCTTCAAGAAGCTGAAGAGGCCAAGGAAAAGAAAGAGAGTGAGGCT
ATGGAGTGGCAGCAGAAGGCCCCAGATGGTACAGGAAGACTTGGAGAAGACCCGTGCTGAGCTGAAGACTGCCATG
AGTACATCTCATGTGGCAGAGCCTGCTGAGAATGAGCAGGATGAGCAGGATGAGAATGGGGCAGAGGCTAGTGCT
GACCTACGGGCTGATGCTATGGCCAAGGACCGCAGTGAGGAGGAATGTACCACTGAGGCAGAGAAGAATGAGCGT
GTGCAGAAGCACCTGAAGGCCCTCACTTCGGAGCTGGCCAGTGCCCGAGATGAGTCCAAGAAGACTGCCAATGAC
ATGATCCATGCTGAGAACATGTGA

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FIGURE 1562

ATGCCGCCCTCGCCTGCGTCCTGCGGCCGTCCCGAGGTGTCACGCTGTCAACAACACAAAGTCGTAGTTGACGTC
GACCATGAGCACTTAGCAGGAGGGCACGCACAGGGACTTGTGCCCGGCGGGGTCCAGCTCCTGCACCTTCAGCTG
CCACTCCATCCTCTGCACAGCGTTCAGGGCCGCAGCCTCGTGCTGCTGCCGCATGAGGAGGAAGAAGCTAGATGAA
CTTATGAGTGAAGAAGCCTATGAGAAATACATAAAATCTATTGAGGAGTGA

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FIGURE 1563

MPPSPASCGRPEVSRCCQHKVVVDVDHEHLAGGHAQGLVPGGVQLLHLQLPLHPLHSVQGRSLVLLPHEEEELDE
LMSEEAYEKYIKSIEE

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FIGURE 1564

GCCGAGCGATGGGCATCTCTCGGGACAACTGGCACCAGCGCCGCAAAACCGGGGGCAAGAGAAAGCCCTACCACA
AGAAGCGGAAGTATGAGTTGGAGCGCCCAGCTGCCAACACCAAGATTGGCCCCCGCCGATCCACACAGTCCGTG
TGCAGGGAATGTTGTACTCGTAAAACAAGGATCATCGATGTTGTCTACAATGCATCTAATAATGAGCTGGTTCGT
ACCAAGACCCTGGTGAAGAATTGCATCGTGCTCATCGACAGCACACCGTGCCGACAGTGGTAAGATGTCCCACTA
CGTGCTGCCCCCTGGGCCGCAAGAAGGGAGCCAAGCTGACTCCTGAGGAAGAAGAGATTTTAAACAAAAAACGATT
TAAACAAATTCAGAAGAAATATGATGAAAGGAAAAAGAATGCCAAAATCAGCAGTCTCCTGGAAGAGCAGTTCCA
GCAGGGCAAGCTTCTTGTCATGCATCGCTTCAAGGCCGGGACAGTGTGGCCGAGCAGATGGCTATGTGCTAGAGGG
CAAAGGGTTGGAGTTCTATCTTAGGAAAATCAAGGCCCGGAAAGGCAAATAAATCCTTGTTTTGTCTTCACCCAT
GTAATAAAGGTGTTTATTGTTTTGTTCCC

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FIGURE 1565

CCGAGGCCAAGTCCCGGGCGCTAGCCACCTCCCACCCGCCTCTTGGCTCCTCTCCTCTAGGCCGTCGCTTTTCGG
GTTCTCTCATCGCTTCGTCGTTTCGCCAATGTTTGGAGGAGAAGGCCAGCAGTCCTTCAGGGAAGATGGGAGGCGAG
GAGAAGCCGATTGGTGCTGGTGAAGAGAAGCAAAAGGAAGGAGGCCAAAAAGAAGCAAAAGGATCTGGAGAT
GGAGGTCGAGCTGAGTTGAATCCTTGGCCTGAATATATTTACACACGTCTTGAGATGTATAATACTAAAAGCA
GAACATGATTCCATTCTGGCAGAAAAGGCAGAAAAAGATAGCAAGCCAATTAAAGTCACTTTGCCTGATGGTAAA
CAGGTTGATGCGGAATCTTGGAAAACCTACACCATATCAAATTGCCTGTGGAATTAGTCAAGGCCTGGCCGACAAC
ACCGTTATTGCTAAAGTAAATAATGTTGTGTGGGACCTGGACCGCCCTCTGGAAGAAGATTGTACCTTGGAGCTT
CTCAAGTTTGGAGATGAGGAAGCTCAGGCAGTGTATTGGCACTCTAGTGCTCACATAATGGGTGAAGCCATGGAA
AGAGTCTATGGTGGATGTTTATGCTACGGTCCGCCAATAGAAAATGGATTCTATTATGACATGTACCTCGAAGAA
GGGGGTGTGTCTAGCAATGATTTCTTTCTCTGGAGGCTTTGTGTAAGAAAATCATTAAAGAAAAACAAGCTTTT
GAAAGACTGGAAGTTAAGAAAGAACTTTTACTGGCAATGTTTAAAGTACAACAAGTTCAAATGCCGGATATTGAAT
GAAAAGGTGAATACTCCAACCTACCACAGTCTATAGATGTGGCCCTTTGATAGATCTCTGCCGGGGTCTCATGTT
AGACACACGGGCAAAATTAAGGCTTTAAAAATACACAAAATTCCTCCACGTACTGGGAAGGCAAAGCAGATATG
GAGACTCTCCAGAGAATTTATGGCATTTCATTCCAGATCCTAAAATGTTGAAAGAGTGGGAGAAGTTCCAAGAG
GAAGCTAAAAACCGAGATCATAGGAAAATTGGCAGGGACCAAGAACTATATTTCTTTTCACTGAAGTCAAGCCCTGGA
AGTTGCTTTTTTCTGCCAAAAGGAGCCTACATTTATAATGCATTATTGAATTCATTAGGAGCGAATATAGGAAA
AGAGGATTCAGGAGGTAGTCACCCCAACATCTTCAACAGCCGACTCTGGATGACCTCGGGCCACTGGCAGCAC
TACAGCGAGAACATGTTCTCCTTTGAGGTGGAGAAGGAGCTGTTTGCCTGAAACCCATGAAGTGGCCAGGACAC
TGCTTATGTTTGATCATCGGCCAAGGTCTGGCGAGAAGTGCCTCTGCGGCTAGCTGATTTTGGGGTACTTTCAT
AGGAACGAGCTGTCTGGAGCACTCACAGGACTCACCCGGGTACGAAGATTCCAACAGGATGATGCTCACATATTC
TGTGCCATGGAGCAGATTGAAGATGAAATAAAAAGGTTGTTTGGATTTTCTACGTACGGTATATAGCGTATTTGGA
TTTTCTTTTAACTAAACCTTTCTACTCGCCCGGAAAAATTCCTTGGAGATATCGAAGTATGGGATCAAGCTGAG
AAACAACCTGAAAACAGTCTGAATGAATTTGGTGAAGAGTGGGAGTTAACTCTGGAGATGGAGCTTTCTATGGC
CCAAAGATTGACATACAGATTAAAGATGCGATTGGGCGGTACCACCAGTGTGCAACCATCCAGCTGGATTTCCAG
TTGCCCATCAGATTTAATCTTACTTATGTAAGCCATGATGGTGATGATAAGAAAAGGCCAGTGATTGTTTCATCGA
GCCATCTTGGGATCAGTGGAAGAATGATTGCTATCCTCACAGAAAATATGGGGGCAATGGCCCTTTTGGCTG
TCCCTCGCCAGGTAATGGTAGTTCCAGTGGGACCAACCTGTGATGAATATGCCCCAAAAGGTACGACAACAATTC
CACGATGCCAAATTCATGGCAGACATTGATCTGGATCCAGGCTGTACATTGAATAAAAAAGATTGAAATGCACAG
TTAGCACAGTATAACTTCATTTTAGTTGTTGGTGAAAAAGAGAAAATCAGTGGCACTGTTAATATCCGCACAAGA
GACAATAAGGTCCACGGGGAACGCACCATTTCTGAAACTATCGAGCGGCTACAGCAGCTCAAAGAGTTCCGCAGC
AAACAGGCAGAAGAAGAATTTTAAATGAAAAAATTACCCAGATTGGCTCCATGGAAAAGGAGGAACAGCGTTTCCG
TAAATTGACTTTGTACTCTGAAAACGTCAATTTATATTGAACTTGGAGGAGTTTGGCAAAGTCTGAATAGGTCA
ACCTGCAGGCGTAATTTTTTACCTAGTCAGTTTTTAAACAATGTGCATTTGAAGGAGTTAATTTAAAGAGAG
CCAATAAAATGATTTTACTCATTTCAGTATCTGAGTACTGGAAGTGAAACATGAGGAATGCTTTAGTGTAATGTGG
GAGAAGTTTTTTGTAAATTTAATGCAATTGAAAAAGTTTTCAAATTCATTAAGATAACTAGAATTGGATTATGG
TGTA

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FIGURE 1566

MFEEKASSPSGKMGGEKPIGAGEEKQKEGGKKKNKEGSGDGGRAELNPWEYIYTRLEMYNILKAEHDSILAEK
AEKDSKPIKVTLPDGKQVDAESWKTPYQIACGISQGLADNTVIAKVNNVVWDLDRPLEEDCTLELLKFEDEEAQ
AVYWHSSAHIMGEAMERVYGGCLCYGPPPIENGFIYDMYLEEGGVSSNDFSSLEALCKKIIKEKQAFERLEVKKET
LLAMFKYNKFKCRILNEKVNTPTTTVYRCGPLIDLRCRGPVHRHTGKIKALKIHKNSSTYWEGKADMETLQRIYGI
SFPDPKMLKEWEKFQEEAKNRDHRKIGRDQELYFFHELSPGSCFFLPKGAYIYNALIEFIRSEYRKRGFQEVVTP
NIFNSRLWMTSGHWQHYSNMFSFEVEKELFALKPMNCPGHCLMFDHRPRSWRELPLRLADFGVLHRNELSGALT
GLTRVRRFQQDDAHIFCAMEQIEDEIKGCLDFLRTVYSVFGFSFKLNLSTRPEKFLGDIEVWDQAEKQLENSLNE
FGEKWELNSGDGAFYGPKIDIQIKDAIGRYHQCATIQLDFQLPIRFNLTYVSHDGDGDKKRPVIVHRAILGSVERM
IAILTENYGGKWPFWLSPRQVMVVPVGPTCDEYAQKVRQQFHDAKFMADIDLDPGCTLNKKIRNAQLAQYNFILV
VGEKEKISGTVNIRTRDNKVHGERTISETIERLQQLKEFRSKQAEDEF

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FIGURE 1567

GAGCATGGATGATTGGCCAGAAATGAAGAAGAAGTTTGCAGATGTATTTGCAAAGAAGACGAAGGCAGAGTGGTG
TCAAATCTTTGACGGCACAGATGCCTGTGTGACTCCGGTTCTGACTTTTGAGGAGGTTGTTTCATCATGATCACAA
CAAGGAACGGGGCTCGTTTATCACCAGTGAGGAGCAGGACGTGAGCCCCGCCCTGCACCTCTGCTGTAAACAC
CCCAGCCATCCCTTCTTTCAAAGGGATCCTTTTCATAGGAGAACACACTGAGGAGATACTTGAAGAATTGGATT
CAGCCGCGAAGAGATTTATCAGCTTAACTCAGATAAAATCATTGAAAGTAATAAGGCTGGTAGCAAGTTCTGGAT
CTTATACCCAACACACAGCAACATCCAGAAATAAAGATCTCAGGACCCCCAGCAAGTCGTTTTGTGTCTCCTTG
GACTGAGTTAAGTTACAAGCCTTTCTTATACCTGTCTTTGACAAAGAAGACGGGATTGTCTTTACATAAAACCAG
CCTGCTCCTGGAGCTTCCCTGGACTCAACTTCCTAAAGGCATGTGAGGAAGGGGTAGATTCCACAATCTAATCCG
GGTGCCATCAGAGTAGAGGGAGTAGAGAATGGATGTTGGGTAGGCCATCAATAAGGTCCATTCTGCGCAGTATCT
CAACTGCCGTTCAACAATCGCAAGAGGAAGGTGGAGCAGGTTTCTTCATCTTACAGTTGAGAAAACAGAGACTCA
GAAGGGCTTCTTAGTTTCGTGTTTCCCTTAGCGCCTCAGTGATTTTTTCATGGTGGCTTAGGCCAAAAGAAATATC
TAACCATTCAATTTATAAATAATTAGGTCCCCAACGAATTAAATATTATGTCCTACCAACTTATTAGCTGCTTGA
AAAATATAATACACATAAATAAAAAAA

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FIGURE 1568

GGCGCCGGGGATTGGGAGGGCTTCTTGCAGGCTGCTGGGCTGGGGCTAAGGGCTGCTCAGTTTCCTTCAGCGGGG
CACTGGGAAGCGCCATGGCACTGCAGGGCATCTCGGTCGTGGAGCTGTCCGGCCTGGCCCCGGGCCCGTTCTGTG
CTATGGTCCTGGCTGACTTCGGGGCGCTGTGGTACGCGTGGACCGGCCCGGCTCCCGCTACGACGTGAGCCGCT
TGGGCCGGGGCAAGCGCTCGCTAGTGCTGGACCTGAAGCAGCCGCGGGGAGCCGCCGTGCTGCGGCGTCTGTGCA
AGCGGTGCGGATGTGCTGCTGGAGCCCTTCCGCCGCGGTGTGATGGAGAACTCCAGCTGGGCCCAGAGATTCTGC
AGCGGGAAAATCCAAGGCTTATTTATGCCAGGCTGAGTGGATTGGCCAGTCAGGAAGCTTCTGCCGGTTAGCTG
GCCACGATATCAACTATTTGGCTTTGTGAGGTGTTCTCTCAAAAATTGGCAGAAAGTGGTGAGAATCCGTATGCCC
CGCTGAATCTCTGGCTGACTTTGCTGGTGGTGGCCTTATGTGTGCACTGGGCATTATAATGGCTCTTTTTGACC
GCACACGCACTGGCAAGGGTCAGGTCAATTGATGCAAATATGGTGGAAGGAACAGCATATTTAAGTTCTTTTCTGT
GGAAAATCAGAAATCGAGTCTGTGGGAAGCACCTCGAGGACAGAAACATGTTGGATGGTGGAGCACCTTTCTATA
CGACTTACAGGACAGCAGATGGGGAATTCATGGCTGTTGGAGCAATAGAACCCAGTTCTACGAGCTGCTGATCA
AAGGACTTGGACTAAAGTCTGATGAACCTCCCAATCAGATGAGCATGGATGATTGGCCAGAAATGAAGAAGAAGT
TTGCAGATGTATTTGCAAAGAAGACGAAGGCAGAGTGGTGTCAAATCTTTGACGGCACAGATGCCTGTGTGACTC
CGGTTCTGACTTTTGGAGGAGTTGTTTCATCATGATCACAACAAGGAACGGGGCTCGTTTATCACCAGTGAGGAGC
AGGACGTGAGCCCCCGCCCTGCACCTCTGCTGTTAAACACCCAGCCATCCCTTCTTTCAAAGGGATCCTTTCA
TAGGAGAACACACTGAGGAGATACTTGAAGAATTTGGATTTCAGCCGCGAAGAGATTTATCAGCTTAACTCAGATA
AAATCATTGAAAGTAATAAGGTAAAAGCTAGTCTCTTAACTTCCAGGCCCCAGGCTCAAGTGAATTTGAATACTGC
ATTTACAGTGTAGAGTAACACATAACATTGTATGCATGGAAACATGGAGGAACAGTATTACAGTGTCTTACCCT
CTAATCAAGAAAAAGATTACAGACTCTGATTCTACAGTGTGATTGAATTTCTAAAAATGGTTATCATTAGGGCTT
TTGATTTATAAAACTTTGGGTACTTATACTAAATTATGGTAGTTATTCTGCCTTCCAGTTTGCTTGATATATTG
TTGATATTAAGATTCTTGACTTATATTTGAATGGGTTCTAGTGAAAAAGGAATGATATATTCTTGAAGACATCG
ATATACATTTATTTACACTCTTGATTCTACAATGTAGAAAATGAGGAAATGCCACAAATTGTATGGTGATAAAAG
TCACGTGAAACAGAGTGATTGTTGCATCCAGGCCTTTTGTCTTGGTGTTCATGATCTCCCTCTAAGCACATTCC
AACTTTAGCAACAGTTATCACACTTGTAAATTTGCAAAGAAAAGTTTACCTGTATTGAATCAGAATGCCTTCA
ACTGAAAAAAACATATCCAAAATAATGAGGAAATGTGTTGGCTCACTACGTAGAGTCCAGAGGGACAGTCAGTTT
TAGGGTTGCCTGTATCCAGTAACTCGGGGCTGTTTCCCGTGGGTCTCTGGGCTGTCAGCTTTCTTTCTCCAT
GTGTTTGATTTCTCCTCAGGCTGGTAGCAAGTTCTGGATCTTATACCCAACACACAGCAACATCCAGAAATAAAG
AICTCAGGACCCCCC

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FIGURE 1569

MALQGISVVELSGLAPGPF CAMVLADFGARVVRVDRPGSRYDVSRLGRGKRSVLVDLKQPRGA AVLRR LCKRSDV
LLEPFRRGVMEKLQLGPEILQRENPR LIYARLSGFGQSGSFCRLAGHDINYLALSGVLSKIGRSGENPYAPLNLL
ADFAGGGLMCALGIIMALFDRTRTGKGQVIDANMVEGTAYLSSFLWKTQKSSLWEAPRGQNMLDGGAPFYTTYRT
ADGEFMAVGAIEPQFYELLIKGLGLKSDLPNQMSMDDWPEMKKKFADVFAKKTAEWCQIFDGTDACVTPVLTF
EEVVHHDHNKERGSFITSEEQDVSPRPAPLLLNTPAIPSFKRDPFIGEHTEEILEEFGFSREEIYQLNSDKIIES
NKVKASL

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FIGURE 1570

TCTTTCTGGTCTCGGCCGCAGAAGCGAGATGACGAAGGGAACGTCATCGTTTGGAAAGCGTCGCAATAAGACGCA
CACGTTGTGCCCGCCGCTGTGGCTCTAAGGCCTACCACCTTCAGAAGTCGACCTGTGGCAAATGTGGCTACCCTGC
CAAGCGCAAGAGAAAAGTATAACTGGAGTGCCAAGGCTAAAAGACGAAATACCACCGGAAGTGGTCGAATGAGGCA
CCTAAAAATTGTATACCGCAGATTCAGGCATGGATTCCGTGAAGGAACAACACCTAAACCCAAGAGGGCAGCTGT
TGCAGCATCCAGTTCATCTTAAGAATGTCAACGATTAGTCATGCAATAAATGTTCTGGTTTTAAAAAATAC

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FIGURE 1571

MTKGTSSF GKRRNKTHL CRRCGSKAYHLQKSTCGKCGYPAKRKRKYNWSAKAKRRNTTGTGRMRHLKIVYRRFR
HGFREGTTPKPKRAAVAASSSS

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FIGURE 1572

GTGTCTGTGGGAGGTTATGTTTATTTGAGACTTCTCCATCGGGATCGCCTGGTGTACCAAGTGTCCTACTGGTAC
TGAGGTTTGCTGCCTGCCTTCTTGCCATGTCTAACGAAGTAGAAACAAGTGCAACCAATGGTCAGCCCCGACCAAC
AGGCCGCACCAAAAGCACCCTCAAAGAAGGAAAAAAGAAAGGCCCTGAAAAGACAGATGAATATCTCTTAGCAA
GGTTCAAAGGCGATGGTGTAAATATAAGGCCAAGCTGATTGGCATTGATGATGTGCCAGATGCAAGAGGGGATA
AAATGAGCCAAGACTCTATGATGAACTAAAGGGAATGGCGGCAGCTGGTTCGGTCTCAGGGACAACACAAACAAA
GGATCTGGGTCAACATTTCCCTTTCTGGGATAAAAAATAATTGATGAGAAAAGTGGGGTAATAGAGCATGAACATC
CAGTAAATAAGATTTCTTTTATTGCCCCGTGATGTGACAGACAACCGGGCATTGTTACGTGTGTGGAGGAGAAG
GCCAGCATCAGTTTTTTGCCATAAAAACCGGGCAACAGGCTGAACCATTAGTTGTTGATCTTAAAGACCTTTTTTC
AAGTTATCTATAATGTAAAGAAAAAGGAAGAAGAAAAAGATAAGAGGAAGCCAGCAAAGCAGTTGAGAATG
GGAGTGAGGCCCTAATGATTCTAGATGACCAAACTAACAACTGAAATCGGGTGTGACCAAGATGGATTGTTTG
GGGACATGTCTACACCTCTGACCTAAATAGTCCAACAGAAAGCAAAGATATCCTGTTAGTGGATCTAAACTCTG
AAATCGACACCAATCAGAATTTCTTTAAGAGAAAAATCCATTCTTAACAAACGGCATCACCTCTGTTCTCTTCTC
GACCAACGCCTCAGGCATCCTTCTTGCCCTGAAAATGCCTTTTTCTGCCAATCTCAACTTCTTTCCACCCCTAATC
CTGATCCTTTCCGTGACGATCCTTTACACAGCCAGACCAATCGACACCTTCTTCGTTTGATTCTCTCAAATCTC
CAGATCAGAAGAAAGAGAATTCGAGTAGCTCGTCTACTCCGCTGAGTAATGGGCCCTGAATGGTGATGTTGACT
ACTTTGGTCAGCAATTTGACCAGATCTCTAACCGGACTGGCAAACAGGAAGCTCAGGCAGGCCCATGGCCCTTTT
CAAGTTCGCAAACCCAGCCAGCAGTGAGAACTCAAATGGGGTATCTGAAAGAGAACAGAACGGCTTCTCTGTCA
AATCCTCCCCGAACCTTTTGTGGGAAGCCCTCCCAAAGGACTGTCCATACAGAATGGCGTAAAGCAGGACTTGG
AAAGCTCTGTCCAGTCTCACCACATGACTCCATAGCCATTATCCACCTCCACAAAGTACCAAACCAGGAAGAG
GCAGAAGGACTGCTAAGTCTTCAGCCAATGACTTGCTTGATCAGACATCTTTGCTCCTCCCGTCTCAGAACCTT
CAGGCCAGGCGTCACCCACAGGACAACCTACAGCCCTGCAGCCCAACCTCTGGATCTCTTCAAACAAGTGCTC
CTGCCCCAGTGGGGCCCTGGTGGGTCTAGGTAGGTGTAAGTGTACACTCCCTCAGGCAGGACCATGGAACACA
GCATCTTTGGTCTTCAATCAGTCCCCTTCAATGGCTCCGGGAGCCATGATGGGTGGTCAACCTTCAGGTTTTAGT
CAGCCCGTCATTTTTTGGTACAAGTCCAGCTGTTTCAGGTGGAACAGCCTTCACCCTTTGCAGCCTCAACTCCC
CCTCCAGTGCCTGTTGTCTGGGGCCCTTCTGCATCTGTGGCACCCTAATGCTTGGTCAACAACAAGCCCTTTGGGG
AATCCTTTTCAGAGCAATATTTTTCCAGCTCCTGTGTGTTCCACTCAGCCCCATCCATGCACTCCTCTCTCCTG
GTCACCTCCTCCTCAGCCACCTCCCAGAGCTGGCCCTCCCAAGGACATCTCCAGTGATGCCTTCACTGCCTTAGAC
CCACTTGGGGATAAAGAGATCAAGGATGTGAAAGAAATGTTTAAGGATTTCCTAAGTGCAGGCGAGCCACCTGCTGTG
CCCGCGCGGAAGGGAGAGCAGACTTCTTCTGGGACTTTGAGTGCCCTTGCCAGTTATTTCAACAGCAAGGTTGGC
ATTCTCAGGAGAATGCAGACCATGATGACTTTGATGCTAATCAACTATTGAACAAGATCAATGAACCACCAAAG
CCAGCTCCCAGACAAGTTTCCCTGCCAGTTACCAAATCTACTGACAATGCATTTGAGAACCTTTCTTTAAAGAT
TCTTTTGGTTCATCACAAGCCTCTGTGGCTTCTTCTCAACCTGTATCTTCTGAGATGTATAGGGATCCATTTGGA
AATCCTTTTGCTTAAATTTCTGAACCTGGTCTGCAGACCATCCAGAGGAATAAAAAGGTTGGCCTTAGTAGTCAA
AACAAAGCTGATAGCCAGACACGTTCTGATTTCTGCCCTTGTTCCAGCTTTGACGTATTATCTGTTGCCTTATTT
CTCATTGCCTCTTCTACTTGTAATAATGCTTTTCACTTTCTGTCTAGGTAAAGCTAAACTGAATCTATGGCTTTA
AATAAATTAAGATCCTAAACTCTTAGCTTAAGTGTAATGAAGTACAGTAGTTTCCCTACTGAACCCTGCCTCT
TGTGTCCCTGGAACCTTCTAGAACACCTGCCTTCTACCCTCTGGTTGGGAGATGCAGCCACCACATCCCTTCATA
TCATACTGTTTGAATAAATTTTCAAATCCTTATTGTTTCAGAGTTGTTTGGGGTTCTGTTTCAGAGCATAAAAC
CTAAAGGTTATAGTAGAACAAGGCACCTTCTTAAAGAAATCTTGCTTCAGACCATCAGTTACAGAGAATTTCTA
AAGTAAATTAAGCAACTACAACCTTCTCCTTAGACACTTTGGAATCTAACCCTTAAGGACCTTTTTTAAAGAGA
TAGCTTCTCTTCTTCTGAAGATCAATTTCTCCAAGGCCAAGATTGTCCTTTTCTCCATTTCTTGCTAGCTAT
TGCAATGAGGGAAGAACATTATTCATCTCTCCTCCCCTTTTTTTCTGATTCTTTTTTTCAGTCAGTTTGTCTC
TGGGTTCAAGTAGTATTACCACCTTTTCAAGCAACAGACTCTCACAGGGC

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FIGURE 1573

TAGGATGGAAAGGCAGATGTAAAGTCCCTCATGGCGAAATATAACACGGGGGGCAACCCGACAGAGGATGTCTCA
GTCAATAGCCGACCCCTTCAGAGTCACAGGGCCAAACTCATCTTCAGGAATACAAGCAAGAAAGAACTTATTCAAC
AACCAAGGAAATGCCAGCCCTCCTGCAGGACCCAGCAATGTACCTAAGTTTGGGTCCCCAAAGCCACCTGTGGCA
GTCAAACCTTCTTCTGAGGAAAAGCCTGACAAGGAACCCAAGCCCCGTTTCTAAAGCCCCTGGAGCAGGCCAA
AGATTGGAACACCAGCCAGCTTGACCACCAGAGACCCGAGGCGAAAGTGGGATTCTGAAACCTGTAGGCCCC
AAGCCCATCAACTTGCCCAAAGAAGATTCCAAACCTACATTTCCCTGGCCTCCTGGAAACAAGCCATCTCTTCAC
AGTGTAACCAAGACCATGACTTAAAGCCACTAGGCCCGAAATCTGGGCCTACTCCTCCAACCTCAGAAAATGAA
CAGAAGCAAGCGTTTCCCAAATTGACTGGGGTTAAAGGGAAATTTATGTCAGCATCACAAGATCTTGAACCCAAG
CCCCTCTTCCCCAAACCCGCTTTGGCCAGAAGCCGCCCTAAGTACCGAGAACTCCCATGAAGACGAAAGCCCC
ATGAAGAATGTGTCTTCATCAAAAGGGTCCCCAGCTCCCTGGGAGTCAGGTCCAAAAGCGGCCCTTTAAACCA
GCAAGGGAAGACTCAGAAAATAAGACCATGCAGGGGAGATTTCAGTTTGCCCTTTCTGGAGTGGTTTTGAAA
CCTGCTGCGAGCAGGGGAGGCCTAGGTCTCTCCAAAAATGGTGAAGAAAAAAGGAAGATAGGAAGATAGATGCT
GCTAAGAACACCTTCCAGAGCAAAATAAATCAGGAAGAGTTGGCCTCAGGGACTCCTCCTGCCAGGTTCCCTAAG
GCCCCTTCTAAGCTGACAGTGGGGGGGCCATGGGGCCAAAGTCAGGAAAAGGAAAAGGGAGACAAGAATTCAGCC
ACCCCGAAACAGAAGCCATTGCCTCCCTTGTTTACCTTGGGTCCACCTCCACCAAAACCCAACAGACCACCAAT
GTTGACCTGACGAAATTCCACAAAACCTCTTCTGGAAACAGTACTAGCAAAGGCCAGACGTCTTACTCAACAAC
TCCCTGCCACCACCTCCACCATCCCATCCGGCCAGCCAACCACCATTGCCAGCATCTCACCCATCACAACCACCA
GTCCCAAGCCTACCTCCCAGAAACATTAAACCTCCGTTTGACCTAAAAAGCCCTGTCAATGAAGACAATCAAGAT
GGTGTACGCACTCTGATGGTGCTGGAAATCTAGATGAGGAACAAGACAGTGAAGGAGAAACATATGAAGACATA
GAAGCATCCAAAGAAAGAGAGAAGAAAAGGGAAAAGGAAGAAAAGAAGAGGTTAGAGCTGGAGAAAAAGGAACAG
AAAGAGAAAGAAAAGAAACAAGAAATAAAGAAGAAATTTAACTAACAGGCCCTATTCAAGTCATCCATCTT
GCAAAAGCTTGTTGTGATGTCAAAGGAGGAAAGAATGAAGTGAAGCTTCAAGCAAGGAGAGCAAAATTGAAATCATC
CGCATCACAGACAACCCAGAAGGAAAATGGTTGGGCAGAACAGCAAGGGGTTTCATATGGCTATATTAAACAAC
GCTGTAGAGATTGACTATGATTCTTTGAAACTGAAAAAGACTCTCTTGGTGCCCTTCAAGACCTATTGAAGAT
GACCAAGAAGTATATGATGATGTTGCAGAGCAGGATGATATTAGCAGCCACAGTCAGAGTGAAGTGGAGGGATA
TTCCCTCCACCACCAGATGATGACATTTATGATGGGATTGAAGAGGAAGATGCTGATGATGGTTTCCCTGCTCCT
CCTAAACAATTGGACATGGGAGATGAAGTTTACGATGATGTGGATACCTCTGATTTCCCTGTTTCATCAGCAGAG
ATGAGTCAAGGAACTAATTTTGGAAAAGCTAAGACAGAAGAAAAGGACCTTAAGAAGCTAAAAAGCAGGAAAAA
GAAGAAAAAGACTTCAGGAAAAAATTTAAATATGATGGTGAATTTAGAGTCCTATATTCACTAAAGTTACAAC
TCCATAACTTCTAAAAAGTGGGGAACCAAGAGATCTACAGGTAAAACCTGGTGAATCTCTAGAAGTTATACAAACC
ACAGATGACACAAAAGTTCTCTGCAGAAATGAAGAAGGGAAATATGGTTATGTCCTTCGGAGTTACCTAGCGGAC
AATGATGGAGAGATCTATGATGATAATTGCTGATGGCTGCATCTATGACAATGACTAGCACTCAACTTTGGTCATT

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FIGURE 1574

MAKYNTGGNPTEDVSVNSRPFRVTGPNSSSGIQARKNLFNNQGNASPPAGPSNVPKFGSPKPPVAVKPSSEEKPD
KEPKPPFLKPTGAGQRFGTPASLTTRDPEAKVGFLKPVGPKPINLPKEDSKPTFPWPPGNKPSLHSVNDHDLKP
LGPKSGPTTPPTSENEQQAFFPKLTGVKGKFMSASQDLEPKPLFPKPAFGQKPPLSTENSHEDESPMKNVSSSKGS
PAPLGVRSGSGLKPA REDSENKD HAGEISSLPFPGVVLKPAASRGGLGLSKNGEEKKEDRKIDAAKNTFQSKIN
QEELASGTTPPARFPKAPSKLTVGGPWGQSQEKEKGDKNSATPKQKPLPPLFTLGPPPPKPNRPPNVDLTKFHKTS
SGNSTSKGQTSYSTTSLPPPPPSHPASQPPLPASHPSQPPVPSLPPRNIKPPFDLKSPVNEDNQDGVTHSDGAGN
LDEEQDSEGETYEDIEASKEREKKREKEEKKRLELEKKEQKEKEKKEQEIKKKFKLTGPIQVIHLAKACCDVKGG
KNELSFKQGEQIEIIRITDNPEGKWLGR TARGSYGYIKTTAVEIDYDSLKLKDSL GAPS RPIEDDQEVYDDVAE
QDDISSHSQSGSGGIFPPPPDDDIYDGIEEEDADDGF PAPPKQLDMGDEVYDDVDTSDFPVSSAEMSQGTNFGKA
KTEEKDLKKLKKQEKEEKDFRKKFKYDGEIRVLYSTKVTTSTITSKKWGTRDLQVKPGESLEVIQTDDTKVLCRN
EEGKYGYVLRSYLADNDGEIYDDIADGCIYDND

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FIGURE 1575

[illegible]

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FIGURE 1576

MERSGPSEVTGSDASGPDQLAVTMGFTGFGKKARTFDLEAMFEQTRRTAVERSRTLEAREKEEEMNREKELRR
QNEDIEPTSSRSNVVRDCSKSSSRDTSSSESEQSSDSSDELIGPPLPPKMVGKPVNFMEEDILGPLPPPLNEEE
EEAEAAAAAAAAAAAAENPVHKIPDSHEITLKHGKTIVSALGLDPSGARLVTTGGYDYDVKFWDFAAGMDASFKAFRSLQ
PCECHQIKSLQYSNTGDMILVVSGSSQAKVIDRDGFVMECIKGDQYIVDMANTKGHTAMLHTGSWHPKIKGEFM
TCSNDATVRTWEVENPKKQKSVFKPRTMQGKKVIPTTCTYSRDGNLIAAACQNGSIQIWDRNLTVHPKFHYKQAH
DSGTDTSCTFSYDGNVLASRGDDSLKLWDIRQFNKPLFSASGLPTMFPMTDCCFSPDDKLIVTGTSIQRGCGS
GKLVFFERRTFQRYEIDITDASVVRCLWHPKLNQIMVGTGNGLAKVYYDPNKSQRGAKLCVVKTQRKAKQAETL
TQDYIITPHALPMFREPRQRSTRKQLEKDRLDPLKSHKPEPPVAGPGRGGRVGTGGTLSSYIVKNIALDKTDDS
NPREALRHAKAAEDSPYWVSPAYSKTQPKTMFAQVESDDEEAKNEPEWKKRKI

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FIGURE 1577

CGGGCTGTAGAGCCTTGCGCGCGCAGTGGGGATGGAACGTTGCTAGGCTTAGCGGGTCTGGCTGCTGGGGGCCCCG
AGCAGCACGCTCGGAGCCGCCGCGGCCAAAGCGGGAATCTGGGAGGCGAGCAGCTCTGCAGTTAATGCACGTAT
TTTAAACTCCCCGGGCCTGCGGACGCTATGCACAGGAAGCACCTCCAGGAGATTCCAGACCTGAGTAGCAACGTTG
CCACCAGCTTCACGTGGGGATGGGATTCCAGCAAGACTTCTGAACTGCTGTCAGGCATGGGGGTCTCCGCCCTGG
AGAAAGAGGAGCCCGACAGTGAGAACATCCCCAGGAAGTGTCTCAAACCTGGGCCACCCGAGAGCCCCCCAC
GGAAACGGCTGAAGAGCAAAGGGAGTGACAAAGACTTTGTGATTGTCCGCAGGCCTAAGCTAAATCGAGAGAACT
TTCCAGGTGTTTCATGGGACTCCCTTCCGGATGAGCTGCTCTTGGGAATCTTTTCCCTGTCTGTGCCTCCCTGAGC
TGCTAAAGGTCTCTGGTGTGTTGTAAGAGGTGGTATCGCCTAGCGTCTGATGAGTCTCTATGGCAGACCTTAGACC
TCACAGGTAAAAATCTGCACCCGGATGTGACTGGTCGGTTGCTGTCTCAAGGGGTGATTGCCTTCCGCTGCCCAC
GATCATTTATGGACCAACCATTTGGCTGAACATTTTCAGCCCTTTTCGTGTACAGCACATGGACCTATCGAACTCAG
TTATAGAAGTGTCCACCCTCCACGGCATACTGTCTCAGTGTTCCAAGTTGCAGAATCTAAGCCTGGAAGGCCTGC
GGCTTTTCGGATCCCATTGTCAATACTCTCGCAAAAACTCAAATTTAGTGCGACTTAACCTTTCTGGGTGTTCTG
GATTCTCTGAATTTGCCCTGCAGACTTTGCTAAGCAGCTGTTCCAGACTGGATGAGCTGAACCTCTCCTGGTGTG
TTGATTTCACTGAAAAGCATGTACAGGTGGCTGTTGCGCATGTGTCAGAGACCATCACCCAGCTGAATCTTAGCG
GCTACAGAAAGAATCTCCAGAAATCAGATCTCTCTACTTTAGTTAGAAGATGCCCCAATCTTGTCATCTAGACT
TAAGTGATAGTGTGATGCTAAAGAATGACTGCTTTTCAGGAATTTTTCAGCTCAACTACCTCCAACACCTATCAC
TCAGTCGGTGCTATGATATAATACCTGAAACTTTACTATTAGTGACAAGAGCTGGGGTTAGGATCCGGTTGGACT
CTGACATCGGATGCCCTCAAACATACAGAACTTCCAAACTCAAGTCCAGCCATAAGCTATTTTGCCAACATGTCA
GAGTAATCTGTATTTTTGTATGTGATTTCTACTTTTATAGACTTGTTTTAAAACAAATAAACACATTTTATAAA
AATGAGTGCTTAAACTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1578

MHRKHLQEIPDLSSNVATSFTWGWDSSTSELLSGMGVSALEKEEPDSENIPQELLSNLGHPESP
PRKRLKSKGS
DKDFVIVRRPKLNRENFPGVSWDSLPEDELLGIFSCCLPELLKVSGVCKRWYRLASDESLWQ
TDLTGKNLHPD
VTGRLLSQGVIAFRCPRSFMDQPLAEHFSPFRVQHMDLSNSVIEVSTLHGILSQCSKLQNL
SLEGLRLSDPIVNT
LAKNSNLVRLNLSGCSGFSEFALQTLSSCSRLDELNLSWCFDFTEKHVQVAVAHVSETITQ
LNLSGYRKNLQKS
DLSTLVRRCPNLVHLDLSDSVMLKNDCFQEFFQLNYLQHLSLSRCYDIIPETLLLVTRAGV
RIRLSDIGCPQTY
RTSKLKSSHKLFQHVVRVICIFVCDFFYRLVLKQ

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FIGURE 1579

GAATTCGGGCTGTAGAGCCTTGCGCGCGCAGTGGGGATGGAACGTTGCTAGGCTTAGCGGGTCTGGCTGCTGGG
GGCCCGAGCAGCACGCTCGGAGCCGCCGCGGCCAAAGCGGGAATCTGGGAGGCGAGCAGCTCTGCAGTTAATGC
ACGTATTTTAAACTCCCGGGCCTGCGGACGCTATGCACAGGAAGCACCTCCAGGAGATTCCAGACCTGAGTAGCA
ACGTTGCCACCAGCTTCACGTGGGGATGGGATTCCAGCAAGACTTCTGAACTGCTGTCAGGCATGGGGGTCTCCG
CCCTGGAGAAAGAGGAGCCCCGACAGTGAGAACATCCCCAGGAAGTCTCTCAAACCTGGGCCACCCGGAGAGCC
CCCCACGGAACGGCTGAAGAGCAAAGGGAGTGACAAAGACTTTGTGATTGTCCGCAGGCCTAAGCTAAATCGAG
AGAACTTTCCAGGTGTTTTCATGGGACTCCCTTCCGGATGAGCTGCTCTTGGGAATCTTTTCCCTGTCTGTGCCTCC
CTGAGCTGCTAAAGGTCTCTGGTGTTTGTAAAGAGGTGGTATCGCCTAGCGTCTGATGAGTCTCTATGGCAGACCT
TAGACCTCACAGGTAAAAATCTGCACCCGGATGTGACTGGTCGGTTGCTGTCTCAAGGGGTGATTGCCTTCCGCT
GCCCACGATCATTATATGGACCAACCATTGGCTGAACATTTTCAGCCCTTTTCGTGTACAGCACATGGACCTATCGA
ACTCAGTTATAGAAGTGTCACCCCTCCACGGCATACTGTCTCAGTGTTCCAAGTTGCAGAATCTAAGCCTGGAAG
GCCTGCGGCTTTTCGGATCCCATTTGTCAATACTCTCGCAAAAACTCAAATTTAGTGCGACTTAACCTTTCTGGGT
GTTCTGGATTCTCTGAATTTGCCCTGCAGACTTTGCTAAGCAGCTGTTCCAGACTGGATGAGCTGAACCTCTCCT
GGTGTTTTGATTCACTGAAAAGCATGTACAGGTGGCTGTTGCGCATGTGTCAGAGACCATCACCCAGCTGAATC
TTAGCGGCTACAGAAAGAATCTCCAGAAATCAGATCTCTCTACTTTAGTTAGAAGATGCCCCAATCTTGTCCATC
TAGACTTAAGTGATAGTGTCATGCTAAAGAATGACTGCTTTCAGGAATTTTCCAGCTCAACTACCTCCAACACC
TATCACTCAGTCGGTGCTATGATATAATACCTGAACTTTACTTGAAGTGGAGAAATCCCACACTAAAAACAC
TACAAGTTTTTGGAATCGTGCCAGATGGTACCCTTCAACTGTTAAAGGAAGCCCTTCCTCATCTACAGATTAATT
GCTCCCATTTACCACCATTGCCAGGCCAACTATTGGCAACAAAAAGAACAGGAGATATGGGGCATCAAATGCC
GACTGACACTGCAAAAGCCCAGTTGTCTATGAAAGTATTTATTGCAGGATGGTGTCTCTTCTTTAGAACAGGGAAA
ATAGGCAGGAAGCCCAATTGCTGGAGTACTTAGCTAGTTTTATTCTTGGTTTTCCCTTTGCCTTCATTCTGCAAG
TATACTAGGGAGCCATTTGAGAGGG

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FIGURE 1580

MHRKHLQEIPDLSSNVATSFTWGWDSSTSELLSGMGVSALEKEEPDSENIPQELLSNLGHPESP
PRKRLKSKGS
DKDFVIVRRPKLNRENFP
GVSWDSL
PDELLLGIF
SCLCLPELL
KVSGVCKR
WYRLASDE
SLWQTL
DLTGKNL
HPD
VTGRLLSQ
GVIAFRCP
RSFMDQPL
AEHFSPFR
VQHMDLS
NSVIEVST
LHGILSQ
CSKLQNL
SLEGLRL
SDPIVNT
LAKNSNL
VRLNL
SGCSGF
SEFALQ
TLLSSCS
RLDELNL
SWCFD
FTEKHV
QVAVAH
VSETIT
QLNL
SGYRKN
LQKS
DLSTL
VRRCP
NLVHLD
LSDSV
MLKND
CFQEFF
QLNYL
QHLSL
SRCYD
IIPET
LLEL
GEIPT
LKT
LQVFG
IVPDGT
LQLLKE
ALPHL
QINCS
HFTT
IARPT
IGNK
KNQE
IWGI
KCR
LTLQ
KP
SCL

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FIGURE 1581A

ATTCTTCTAAGGAGCCTAAATTCACCAAGTGCCGTTACCTGAGCGAGAGACTTTTTTCATGCCACTGGACAGATG
AGGTTTCATCATGGTACAAAGAACCTAGGACCCATACAGCTGTTCTATACCAGAAGGAACACTCAAGAATGGACTC
AAGAATGGAAAGAATGCCCTGATTATGTTTCTGCTGGGGAACAGCTGTTACTTTAATTCATCGTTTACCTCCA
TCTGGATACCTTATTGTATCAAGCTAACTAGCAATGGTGGTACAGTGGATGAAAAGTGTTCCTCTGTTGATGAAA
TAGTGCAACCAGATCCACCCATTGCCCTCACTGGACTTTACTGAACGTCAGTTTAACTGGGATTTCATGCAGATA
TCCAAGTGAGATGGGAAGCACCACGCAATGCAGATATTAGAAAGGATGGATGGTTCTGGAGTATGAACTTCAAT
ACAAAGAAGTAAATGAACTAAATGGAAATGATGGACCTATATTGACAACATCAGTTCCAGTGTACTCATTGA
AAGTGGATAAGGAATATGAAGTGCCTGTGAGATCCAAACAACGAAACTCTGGAAATTATGGCGAGTTCAGTGAGG
TGCTCTATGTAACACTTCCTCAGATGAGCCAATTTACATGTGAAGAAGATTTCTACTTTCCATGGCTCTTAATTA
TTATCTTTGGAATATTTGGGCTAACAGTGATGCTATTTGTATTCTTATTTTCTAAACAGCAAAGGATTAATAATGC
TGATTCTGCCCCAGTTCCAGTTCCAAAGATTAAAGGAATCGATCCAGATCTCCTCAAGGAAGGAAAATTAGAGG
AGGTGAACACAATCTTAGCCATTTCATGATAGCTATAAACCCGAATTCCACAGTGATGACTCTTGGGTTGAATTTA
TTGAGCTAGATATTGATGAGCCAGATGAAAAGACTGAGGAATCAGACACAGACAGACTTCTAAGCAGTGACCATG
AGAAATCACATAGTAACCTAGGGGTGAAGGATGGCGACTCTGGACGTACCAGCTGTTGTGAACCTGACATTCTGG
AGACTGATTTCAATGCCAATGACATACATGAGGGTACCTCAGAGGTTGCTCAGCCACAGAGGTTAAAGGGGAAG
CAGATCTCTTATGCCTTGACCAGAAGAAATCAAATAAATCACCCTTATCATGATGCTTGCCCTGCTACTCAGCAGC
CCAGTGTTATCCAAGCAGAGAAAAACAAACCACAACCACTTCTACTGAAGGAGCTGAGTCAACTCACCAAGCTG
CCCATATTCAGCTAAGCAATCCAAGTTCAGTGTCAAACATCGACTTTTATGCCAGGTGAGCGACATTACACCAG
CAGGTAGTGTGGTCTTTTCCCCGGGCCAAAAGAATAAGGCAGGGATGTCCCAATGTGACATGCACCCGGAAATGG
TCTCACTCTGCCAAGAAAACCTCCTTATGGACAATGCCTACTTCTGTGAGGCAGATGCCAAAAAGTGCCTCCCTG
TGGCTCCTCACATCAAGGTTGAATCACACATACAGCCAAGCTTAAACCAAGAGGACATTTACATCACCACAGAAA
GCCTTACCCTGCTGCTGGGAGGCCTGGGACAGGAGAACATGTTCCAGGTTCTGAGATGCCTGTCCAGACTATA
CCTCCATTTCATATAGTACAGTCCCCACAGGGCCTCATACTCAATGCGACTGCCTTGCCCTTGCTGACAAAGAGT
TTCTCTCATCATGTGGCTATGTGAGCACAGACCAACTGAACAAAATCATGCCTTAGCCTTTCTTTGGTTTCCCAA
GAGCTACGTATTTAATAGCAAAGAATTGACTGGGGCAATAACGTTTAAAGCCAAAACAATGTTTAAACCTTTTTTG
GGGAGTGACAGGATGGGGTATGGATTCTAAAATGCCTTTTCCCAAATGTTGAAATATGATGTTAAAAAATAA
GAAGAATGCTTAATCAGATAGATATTCCTATTGTGCAATGTAAATATTTTAAAGAATTGTGTCAGACTGTTTAGT
AGCAGTGATTGTCTTAATATTGTGGGTGTTAATTTTTGATACTAAGCATTGAATGACTATGTTTTAATGTATAG
TAAATCACGCTTTTTGAAAAAGCGAAAAATCAGGTGGCTTTTGGCGTTTCAGGAAAATTGAATGCAACCATAGC
ACAGGCTAATTTTTTGTGTTTCTTAAATAAGAACTTTTTTATTTAAAAAACTAAAAACTAGAGGTGAGAAATT
TAACTATAAGCAAGAAGGCAAAAAATAGTTTGGATATGTAAACATTTATTTTACATAAAGTTGATAAAGATAT
TTTTAATAATTTAGACTTCAAGCATGGCTATTTTATATTACACTACACACTGTGTACTGCAGTTGGTATGACCCC
TCTAAGGAGTGTAGCAACTACAGTCTAAAGCTGGTTAATGTTTGGCCAATGCACCTAAAGAAAAACAACCTCG
TTTTTTACAAAGCCCTTTTATACCTCCCCAGACTCCTTCAACAATTCTAAAATGATTGTAGTAATCTGCATTATT
GGAATATAATTGTTTTATCTGAATTTTTTAAACAAGTATTTGTTAATTTAGAAAACCTTAAAGCGTTTGCACAGAT
CAACTTACCAGGCACCAAAAAGAAGTAAAAGCAAAAAAGAAAACCTTTCTTCACCAAATCTTGGTTGATGCCAAAA
AAAAATACATGCTAAGAGAAGTAGAAATCATAGCTGGTTCACACTGACCAAGATACTTAAGTGTGCAATTGCAC
GCGGAGTGAGTTTTTTAGTGCGTGAGATGGTGAGAGATAAGATCTATAGCCTCTGCAGCGGAATCTGTTTCACAC
CCAACCTGGTTTTTGCTACATAATTATCCAGGAAGGGAATAAGGTACAAGAAGCATTGTGTAAGTTGAAGCAAAATC
GAATGAAATTAAGTGGGTAATGAAACAAAGAGTTCAAGAAATAAGTTTTTGTTCACAGCCTATAACCAGACACA
TACTCATTTTTTCATGATAATGAACAGACATAGACAGAAGAAACAAGTTTTTCACTCCACAGATAACTGAAAA
TTATTTAAACCGCTAAAAGAACTTTCTTTCTCACTAAATCTTTTATAGGATTTATTTAAAATAGCAAAAGAAGA
AGTTTCATCATTTTTTACTTCTCTGAGTGGACTGGCCTCAAAGCAAGCATTGAGAAGAAAAAGAAGCAACCT
CAGTAATTTAGAAATCATTTTGAATCCCTTAATATCCTAAACATCATTCAATTTTTGTGTTGTTGTTGTTGAGA
CAGAGTCTCGCTCTGTGCGCAGGCTAGAGTGCAGTGGCGCGATCTTGACTCACTGCAATCTCCACCTCCACAGG
TTCAGGCGATTCCCGTGCCTCAGCCTCCTGAGTAGCTGGGACTACAGGCACGCACCACCATGCCAGGCTAATTTT
TTTGTATTTTAGCAGAGACGGGGTTTACCATGTTGGCCAGGATGGTCTCGATCTCCTGACCTCGTGATCCACCC
GACTCGGCCTCCCAAAGTGCTGGGATTACAGGTGTAAGCCACCGTGCCAGCCCTAAACATCATTCTTGAGAGCA

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FIGURE 1581B

TTGGGATATCTCCTGAAAAGGTTTATGAAAAAGAAGAATCTCATCTCAGTGAAGAATACTTCTCATTTTTTAAAA
AAGCTTAAACCTTTGAAGTTAGCTTTAACTTAAATAGTATTTCCCATTTATCGCAGACCTTTTTTAGGAAGCAAG
CTTAATGGCTGATAATTTTAAATTCCTCTCTCTTGCAGGAAGGACTATGAAAAGCTAGAATTGAGTGTTTAAAGTT
CAACATGTTATTTGTAATAGATGTTTGATAGATTTTCTGCTACTTTGCTGCTATGGTTTTCTCCAAGAGCTACAT
AATTTAGTTTTCATATAAAAGTATCATCAGTGTAGAACCTAATTCAATTCAAAGCTGTGTGTTTGGAAGACTATCTT
ACTATTTTACAACAGCCTGACAACATTTCTATAGCCAAAAATAGCTAAATACCTCAATCAGTCTCAGAATGTCAT
TTTGGTACTTTGGTGGCCACATAAGCCATTATTCAGTAGTATGACTAGTTGTGTCTGGCAGTTTATATTTAACTC
TCTTTATGTCTGTGGATTTTTTCCTTCAAAGTTTAATAAATTTATTTTCTTGGATTCTGATAGTGTGCTTCTGT
TATCAAACACCAACATAAAAAATGATCTAAACC

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FIGURE 1582

CCTTCACACAGCTCTTTCACCATGCCTGGATCACTTCCTTTGAATGCAGAAGCTTGCTGGCCAAAAGATGTTGGG
ATTGTTGCCCTTGAGATCTATTTTCCTTCTCAATATGTTGATCAAGCAGAGTTGGAAAAATATGATGGTGTAGAT
GCTGGGAAGTATACCATTTGGCTTGGGCCAGGCCAAGATGGGCTTCTGCACAGATAGAGAAGATATTAACCTCTCTT
TGCATGACTGTGGTTTCAAGATCTTATGGAGAGAAATAACCTTTTCTATGATTGCATTGGGCGGCTGGAAGTTGGA
ACAGAGACAATCATCGACAAATCAAAGTCTGTGAAGACTAATTTGATGCAGCTGTTTGAAGAGTCTGGGAATACA
GATATAGAAGGAATCGACACAATAATGCATGCTATGGAGGCACAGCTGCTGTCTTCAATGCTGTAACTGGATT
GAGTCCAGCTCTTGGGATGGACGGTATGCCCTGGTAGTTGCAGGAGATATTGCTGTATATGCCACAGGAAATGCT
AGACCTACAGGTGGAGTTGGAGCAGTAGCTCTGCTAATTGGGCCAAAATGCTCCTTTAATTTTTGAACGAGGGCTT
CGTGGGACACATATGCAACATGCCTATGATTTTTACAAGCCTGATATGCTATCTGAATATCCTATAGTAGATGGG
AAACTCTCCATACAGTGCTACCTCAGTGCATTAGACCGCTGCTATTCTGTCTACTGCAAAAAGATCCATGCCAG
TGGCAGAAAAGAGGGAAATGATAAAGATTTTACCTTGAATGATTTTGGCTTCATGATCTTTCACCTACCATATTGT
AAACTGGTTTCAAGAAATCTCTAGCTCGGATGTTGCTGAATGACTTCCTTAATGACCAGAATAGAGATAAAAATAGT
ATCTATAGTGGCCTGGAAGCCTTTGGGGATGTTAAATTAGAAGACACCTACTTTGATAGAGATGTGGAGAAGGCA
TTTATGAAGGCTAGCTCTGAACTCTTCAGTCAGAAAACAAAGGCATCTTTACTTGTATCAAATCAAATGGAAAT
ATGTACACATCTTCAGTATATGGTTCCCTTGCATCTGTTCTAGCACAGTACTCACCTCAGCAATTAGCAGGGAAG
AGAATTGGAGTGTTTTCTTATGGTTCTGGTTTGGCTGCCACTCTGTACTCTCTTAAAGTCACACAAGATGCTACA
CCGGGGTCTGCTCTTGATAAAATAACAGCAAGTTTATGTGATCTTAAATCAAGGCTTGATTCAAGAACTGGTGTG
GCACCAGATGTCTTCGCTGAAAACATGAAGCTCAGAGAGGACACCCATCATTGGTCAACTATATCCCCAGGGT
TCAATAGATTCACTCTTTGAAGGAACGTGGTACTTAGTTAGGGTGGATGAAAAGCACAGAAGAACTTACGCTCGG
CGTCCCCTCCAAATGATGACACTTTGGATGAAGGAGTAGGACTTGTGCATTCAAACATAGCAACTGAGCATATT
CCAAGCCCTGCCAAGAAAGTACCAAGACTCCCTGCCACAGCAGCAGAACCTGAAGCAGCTGTCATTAGTAATGGG
GAACATTAAAGATACTCTGTGAGGTGCAAGACTTCAGGGTGGGGTGGGCATGGGGTGGGGGTATGGGAACAGTTGG

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FIGURE 1583

MPGSLPLNAEACWPKDVGIVALEIYFPSQYVDQAELEKYDGVDAGKYTIGLGQAKMGFCTDREDINSLCMTVVQN
LMERNNLSYDCIGRLEVGTETIIDKSKSVKTNLMQLFEESGNTDIEGIDTTNACYGGTAAVFNAVNWIESSWDG
RYALVVAGDIAVYATGNARPTGGVGAVALLIGPNAPLIFERGLRGTHMQHAYDFYKPDMLSEYPIVDGKLSIQCY
LSALDRCYSVYCKKIHAQWQKEGNDKDFTLNDFGFMIFHSPYCKLVQKSLARMLLNDFLNDQNRDKNSIYSGLEA
FGDVKLEDTYFDRDVEKAFMKASSELFQKTKASLLVSNQNGNMYTSSVYGSLASVLAQYSPQQLAGKRIGVFSY
GSGLAATLYSLKVTQDATPGSALDKITASLCDLKSRLDSRTGVAPDVFAENMKLREDTHHLVNYIPQGSIDSLFE
GTWYLVRVDEKHRRTYARRPTPNDDTLDEGVGLVHSNIATEHIPSPAKKVPRLPATAAEPEAAVISNGEH

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FIGURE 1584

CAATGGGTTTGGCCACCAGAACACAGGTGTTGTGAAAACTACCCCTAAAAGCCAAAATGGGAAAGGAAAAGACTCA
TATCAACATTGTCGTCATTGGACACGTAAATTCGGGCAAGTCCACCACTACTGGCCATCTGACCTACAAATGTGG
TGGCATCGACAAAAGAACCATTGAAAAATTTGAGAAGGAGGCTGCTGAGATGGGAAAGGACTCCTTCAAGTATGC
CTGGGTCTTGCATAAACTGAAAGCTGAGCGTGAACGTGGTATCACCATTGATATCTCCTTGTGGAAATTTGAGAC
CAGCAAGTACTATGTGACTATCATTGATGCCCCAGGACTCAGAGACTTCATCAAAAACATGATTACAGGGACATC
TCAGGCTGTGCTGTCCTGATGGTTGCTGCTGGTGTGGCGAATTTGAAACTGGTATCTCCAAGAATGGGCAGACC
TGAGAGCATGCCCTTCTGGCTTACACACTGGGTGTGAAACAACATAATTGTTGGTGTAAACAAAATGGATTCCACT
GAGCCACCCTACAGCCAGAAGAGAGAAGAGGAAATTTGTTAAGGAAGTCAGCACTTACATTAAGAAAATTGGTTAC
AACCCTGACACAGTAGCATTGTGTCCAATTTCTGGTTGGAATGGTGACAACATGCTGGAGCCGAGTGCTAACATG
CCTTGGCTCAAGGGATGGAAAGCCACCCGTAAGGATGGCAGTGCCAGCGGCACCATGCTGCTTGAGGCTCTGGAC
TGCATCCTACCACCAACTCATCCAAGCTGACAAGCCCTTGCGCCTGCCCTCTCCAGGATGTCTACAAAATTGGTGGT
ATTGGTACTGTTCTGTTGGCCGAGTGGAGACTGGTGTCTCAAACCTGGTGTGGTGGTCACCTTTGCTCCAGTC
AACATTACAACAGAAGTAAATCTGTGCAAAATGCACCATGAAGCTTTGAGTGAAGCTCTTCTGGGGACAATGTG
GGCTTCAATGTCAAGAATGTGTCTGTCAAGGATGTTTCGTGCTGGCAACGTTGCTGGTGACAGCAAAAATGACCCA
CCAATGGAAACAGCTGACTTCATTGCTCAGGTAATTATCCTGAACCATCCAGGCCAAATAAGCGCTGGCTATGCC
CCTATATTGGATTGCCACGCGGCTCACATTGCATGCAAGTTTGCTGAGCTGAAGGAAAAGATTGATCGCGTTCT
GGTAAAAAGCTGGAAGATGGCCCTAAATTCCTGAAGTCTGGTGATGCTGCCATTGTTGATATGGTTCCTGGCAAG
CCCATTGTTGAGAGCTTCTCAGACTATCCACCTTTGGGTCATTTTGCTGTTTCGTGATATGAGACAGACAGTTGCG
GTGGGTGTCATCAAAGCAGTGGACAAGAAGGCTGCTGGAGGTGGCAAGGTCACGAAGTCTGCCCAGACAGCTCAG
AAGGCTAAATGAATATTATCCCTAATACCTGCCACCCAACTCTTAATCAGTGGTGGGAAGTGGTCTCAGAAGTG
TTTGTTTCAATTGGCCATTTAAGTTTAGTAGTGAAAGACTGGTTAATGATAACAATGCATCGTAAAACCTTCAGA
AGGAAAGGAGAATGTTTTGTGGACCACTTTGGTTTTCTTTTTTGATGTGGTAGTTTTAAGTTATTAGTTTTTAA
AATCAGTACTTTTTAATGGAAACAACCTGACCAAAAATTTGTACAGAATTTTGAGACC

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FIGURE 1585

MDSTEPPYSQKREEEIVKEVSTYIKKIGYNPDTVAFVPI SGWNGDNMLEPSANMPWLKGWKATRKGDSASGTMLL
EALDCILPPTHPTDKPLRLPLQDVYKIGGIGTVPVGRVETGVLKPGVVVTFAPVNITTEVKSVEMHHEALSEALP
GDNVGFNVKNVSVKDVRRGNVAGDSKNDPPMETADFIAQVIILNHFGQISAGYAPILDCHAAHIACKFAELKEKI
DRSGGKKLEDGPKFLKSGDAAIVDMVPGKPIVESFSYFPPLGHFAVRDMRQTVAVGVKAVDKKAAGGGKVTKSA
QTAQKAK

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FIGURE 1586

CACAGGTGTTGTGAAAAC TACCCCTAAAAGCCAAAATGGGAAAGGAAAAGACTCATATCAACATTGTCGTCATTG
GACACGTAAATTCGGGCAAGTCCACCACTACTGGCCATCTGACCTACAAATGTGGTGGCATCGACAAAAGAACCA
TTGAAAAATTTGAGAAGGAGGCTGCTGAGATGGGAAAGGACTCCTTCAAGTATGCCTGGGTCTTGCATAAACTGA
AAGCTGAGCGTGAACGTGGTATCACCATTGATATCTCCTTGTGGAAATTTGAGACCAGCAAGTACTATGTGACTA
TCATTATGCCCTTCTGGCTTACACACTGGGTGTGAAACAACATAATTGTTGGTGTTAACAAAATGGATTCCACTGA
GCCACCCTACAGCCAGAAGAGAGAAGAGGAAATTGTTAAGGAAGTCAGCACTTACATTAAGGGTGACAACATGCT
GGAGCCGAGTGCTAACATGCCTTGGCTCAAGGGATGGAAAGCCACCCGTAAGGATGGCAGTGCCAGCGGCACCAT
GCTGCTTGAGGCTCTGGACTGCATCCTACCACCAACTCATCCAAGCCCTTGCGCCTGCCTCTCCAGGA
TGTCTACAAAATTGGTGGTATTGGTACTGTTTCTGTTGGCCGAGTGGAGACTGGTGTCTCAAACCTGGTGTGGT
GGTCACCTTTGCTCCAGTCAACATTACAACAGAAGTAAATCTGTGCGAAATGCACCATGAAGCTTTGAGTGAAGC
TCTTCCTGGGGACAATGTGGGCTTCAATGTCAAGAATGTGTCTGTCAAGGATGTTTCGTCGTGGCAACGTTGCTGG
TGACAACCATCCAGGCCAAATAAGCGCTGGCTATGCCCTATATTGGATTGCCACGCGGCTCAC

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FIGURE 1587

AAATTGTTAAGGAAGTCAGCACTTACATTAAGAAAAATTGGTTACAACCCTGACACAGTAGCATTGTGCCAATTT
CTGGTTGGAATGGTGACAACATGCTGGAGCCGAGTGCTAACATGCCTTGGCTCAAGGGATGGAAAGCCACCCGTA
AGGATGGCAGTGCCAGCGGCACCATGCTGCTTGAGGCTCTGGACTGCATCCTACCACCAACTCATCCAAGTGACA
AGCCCTTGCGCCTGCCTCTCCAGGATGTCTACAAAAATTGGTGGTATTGGTACTGTTCTGTTGGCCGAGTGGAGA
CTGGTGTCTCAAACCTGGTGTGGTGGTCACCTTTGCTCCAGTCAACATTACAACAGAAGTAAAATCTGTCGAAA
TGCACCATGAAGCTTTGAGTGAAGCTCTTCCTGGGGACAATGTGGGCTTCAATGTCAAGAATGTGTCTGTCAAGG
ATGTTTCGTCGTGGCAACGTTGCTGGTGACAGCAAAAAATGACCCACCAATGGAAACAGCTGACTTCATTGCTCAGG
TAATTATCCTGAACCATCCAGGCCAAATAAGCGCTGGCTATGCCCTATATTGGATTGCCACGCGGCTCACATTG
CATGCAAGTTTGCTGAGCTGAAGGAAAAGATTGATCGCGGTTCTGGTAAAAAGCTGGAAGATGGCCCTACCACT
TTGGGTCATTTTGCTGTTTCGTGATATGAGACAGACAGTTGCGGTGGGTGTCATCAAAGCAGTGGACAAGAAGGCT
GCTGGAGGTGGCAAGGTCACGAAGTCTGCCCAGACAGCTCAGAAGGCTAAATGAATATTATCCCTAATACCTGCC
ACCCAACCTCTTAATCAGTGGTGAAGAATGGTCTCAGAACTGTTTGTTCATTGGCCATTTAAGTTTAGTAGTG
AAAGACTGGTACTTTTTAATGGAAACAACCTGACCAAAAATTTGTCACAGAATTTTGAGACCTGTTAAAAAAGTT
TAATGAG

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FIGURE 1588A

TTTGTCCATGTCTCGGACAGAGCCTGGGAAGCTGCCAGTGAGATTTTCAGAGACCAAGAGCGCGAAGGGGCGGGCG
ATGTGGCAATCCGTCTGGGATGTGAAAAGCGTGGAGCGCATTTAGAGGAATTCGACGAAAAACAGGAAATCACT
CCTCTCCCGCTCCTGGGCGCCGCTGCCACTGGGGCAGAGGACTGGGAACCGCGGCAGCGGGATAAGTGGCCCAGC
CAGAGAGCGCAGCTCCCGCGCCCGGTCTGCCCTGCGAACCAGCGCGGCCCCCTGGCGCTGAGGCTGCTCCGGCC
ATGGCCCCCTCGGCCCCGCGCCCGCCAGGGGTGCTGTCGCCTGCTGCTGGCTCCTCACTGTTGTTCTACGCTGC
TGCGTATCATTCAATGTTGATGTGAAAAATTCAATGACTTTTCAGCGGCCCCGGTGGGAAGACATGTTTGGATATACT
GTTCAACAATATGAAAATGAAGAAGGAAAATGGGTGCTTATTGGTTCTCCGTTAGTTGGCCAACCCAAAAACAGA
ACTGGAGATGTCTATAAGTGTCAGTTGGGAGAGGTGAATCATTACCTTGTGTAAAGTTGGATCTACCAGTTAAT
ACATCAATTCCCAATGTACAGAAAGTAAAGGAGAACATGACATTTGGATCAACTTTAGTCACCAACCCAAATGGA
GGATTTCTGGCTTGTGGGCCCTTATATGCCTATAGATGTGGACATTTGCATTACACAACCTGGAATCTGTTCTGAC
GTCAGCCCCACATTTCAAGTCGTGAATTCCATTGCCCTGTACAAGAATGCAGCACTCAACTGGACATAGTCATA
GTGCTGGATGGTTCCAACAGTATTTACCCATGGGACAGTGTTACAGCTTTTTTAAATGACCTTCTTGAAAGAATG
GATATTGGTCCTAAACAGACACAGGTTGGAATTGTACAGTATGGAGAAAACGTGACCCATGAGTTCAACCTCAAT
AAGTATTCTTCCACCGAAGAGGTACTTGTGTCAGCAAAGAAAATAGTCCAGAGAGGTGGCCGCCAGACTATGACA
GCTCTTGGAATAGACACAGCAAGAAAGGAGGCATTACGGAAGCCCGGGGTGCCGAAGAGGAGTTAAAAAAGTC
ATGGTTATTGTGACAGATGGAGAGTCTCATGACAATCATCGACTGAAGAAGGTCATCCAAGACTGTGAAGATGAA
AACATTCAACGGTTTTTCCATAGCTATTCTTGGCAGCTATAACCGAGGAAATTTAAGCACTGAAAAATTTGTGGAG
GAAATAAAATCAATTGCAAGTGAACCCACTGAAAAGCATTCTTCAATGTCTCTGATGAATTGGCTCTAGTCACC
ATTGTTAAACTCTGGGAGAAAAGATATTTGCCCTGGAAGCCACAGCTGACCAGTCAGCAGCTTCATTGAAATG
GAAATGTCTCAGACTGGCTTCAGTGCTCATTATTCACAGGACTGGGTCTATGCTTGGAGCAGTAGGAGCCTATGAT
TGGAATGGAACAGTTGTATGCAAGGCTAGTCAAATCATAATCCCTCGAAACACAACCTTTAATGTTGAGTCT
ACCAAAAAGAATGAACCGCTTGCTTCTTATTTAGGTTACACTGTAACTCTGCTACTGCTTCTTCTGGAGATGTG
CTCTATATTGCTGGACAGCCTCGGTACAATCATAACAGGCCAGGTCAATTATCTACAGGATGGAAGATGGAACATC
AAAATCTCCAGACGCTCAGTGGAGAACAGATTGGTTCCTACTTTGGCAGTATTTTAAACAACAACCTGACATTGAC
AAGGATTCTAATACTGACATTCTTCTAGTCGGAGCCCCCTATGTACATGGGAACAGAGAAGGAGGAGCAAGGAAAA
GTGTATGTGTATGCTCTCAATCAGACAAGGTTTGAATATCAAATGAGCCTGGAACCTATTAAGCAGACGTGCTGT
TCATCTCGGCAGCACAATTCATGCACAACAGAAAACAAAAATGAGCCATGCGGGGCTCGTTTTGGAACCTGCAATT
GCTGCTGTAAAAGACCTCAATCTTGATGGATTAAATGACATCGTGATAGGAGCTCCGCTGGAAGATGATCACGGG
GGAGCTGTGTACATTTATCATGGAAGTGGCAAGACTATAAGGAAAGAGTATGCACAACGTATTCCATCAGGTGGG
GATGGTAAGACACTGAAATTTTTTGGCCAGTCTATCCACGGAGAAATGGATTTAAATGGTGACGGTCTGACAGAT
GTGACTATTGGGGGCTTGGTGGTGCTGCCCTCTTCTGGTCCCAGATGTGGCCGTAGTTAAAGTGACCATGAAT
TTTGAGCCAAATAAAGTGAATATTCAAAAAGAAAACTGCCATATGGAGGGAAAGGAAACAGTATGCATAAATGCT
ACAGTGTGTTTTGATGTGAAATTAAGTCTAAAGAAGACACGATTTATGAAGCTGATTTGCAGTACCGTGTACC
CTAGATTCATAAGACAAATATCACGAAGTTTTTTCTCTGGAACCTCAAGAGAGAAAGGTTCAAAGGAACATCACA
GTTCGAAAATCAGAATGCACTAAGCACTCCTTCTACATGTTGACAAGCATGACTTTTCAGGACTCTG**TG**AGAATAA
CGTTGGACTTTAATCTTACCGATCCAGAAAAATGGGCCTGTTCTTGATGATTCTCTACCAAACCTCAGTACATGAAT
ATATTCCCTTTGCCAAAGATTGTGGAAAATAAGGAAAAATGTATCTCAGACCTCAGCCTGCATGTGCCACCACTG
AAAAGGACCTGCTGATTGTCCGATCCAGAAATGATAAGTTCAACGTTAGCCTCACAGTCAAAAATACAAAGGACA
GTGCCTATAACACCAGGACAATAGTGCATTATTTCCAAATCTAGTTTTTTCAGGAATTGAGGCTATCCAAAAAG
ACAGTTGTGAATCTAATCATAATATCACATGTAAAGTTGGATATCCCTTCTGAGAAGAGGAGAGATGGTAACTT
TCAAAATATTGTTTCAGTTTAAACATCCTATCTCATGGAATGTGACCATTTATTTAAGTGCAACAAGTGACA
GCGAAGAACCTCCTGAAACCCCTTCTGATAATGTAGTAAACATTTCTATCCCGTAAATATGAAGTTGGACTAC
AGTTTTACAGCTCTGCAAGTGAATACCACATTTCAATTGCTGCCAATGAGACAGTCCCTGAAGTTATTAATTCTA
CTGAGGACATTGGAATGAAATTAATATCTTCTACTTGATTAGAAAAAGTGGATCTTTTCCAATGCCAGAGCTTA
AGCTGTCAATTTCAATCCCAATATGACATCAAAATGGTTACCCTGTGCTGTACCCAACCTGGATTGTATCTTCTG
AGAATGCAAACTGCAGACCCCATATCTTTGAGGATCCTTTTCAGTATCAACTCTGGAAAGAAAATGACTACATCAA
CTGACCATCTCAAACGAGGCACAATTCTGGACTGCAATACATGTAAATTTGCTACCATCACATGTAATCTCACTT
CTTCTGACATCAGCCAAGTCAATGTTTCGCTTATCTTGTGGAAACCACTTTTATAAAATCATATTTTTCCAGCT

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FIGURE 1588B

TAAATCTTACTATAAGGGGAGAACTTCGGAGTGAAAATGCATCTCTGGTTTTAAGTAGCAGCAATCAAAAAAGAG
AGCTTGCTATTCAAATATCCAAAGATGGGCTACCGGGCAGAGTGCCATTATGGGTCATCCTGCTGAGTGCTTTTG
CCGGATTGTTGCTGTTAATGCTGCTCATTTTAGCACTGTGGAAGATTGGATTCTTCAAAAGACCACTGAAAAAGA
AAATGGAGAAATGAAATATTTTTATGAAAGAAAATAATAACAATTATTCAATAATCTATCCTCAGGTTTGCCTCAA
ATATGTGACAAGAAATGTATAATTCATGACATAGTCATGTAACCTATGTAATCCATCAGGGATTCTTACTTGGAA
AATGACAGGTCATGCATTATCCAAAAACAATACCAAAAAGACATATTTTATAAAATGACAAAAATATTTTACAT
AATTACTCATTTTTGTTGAGTAAGCAAAATTACAAAGTGTTTTTAAAAAACCTGTACAAATATGTTTATGTATT
AAATCACCATCCAAAATATTTAAGGAATATATAAAAAGATTTTTATGATCATAGAAACATCTATTTTCAAAACAA
TATAAATTAAGCTTTTCCCCTTGATTCTGTTGGATATCCATGTTTCAGCATGACAGTCAGCACTCGTAAATGCCA
AGAAAAGAATTACCTGAAAAAGATCATTTCTCCCTATTCAAATGAGAATATTTTCCCTTGGTAGAATCCATATAC
AATATGGATTGAAAATTAAGTCACCAAGAATACATTTAGCATCTTTGTGTTGGGTCTATACCTAAAAATTTTCC
CTCCCTGCCCAAGGTGATTGGAAAGTACTGCAATTGAGCTAAAATTTTATCTAGGATGGAAAATCAGGATAGACT
CGTTTAAAAACAAGTATATTAATGGGTTAAATTAAGCTTTTACAGAACATGCTTAATTTTGATATTGAGCTCTA
AATGCAAAACTCTTTTATACTGAAAAACACTTAAAGTAGTTTTGTGTGGCATCACAGTGATTGTGCATGAAAAG
CCATATATGGGGGACATGCTAAATGGCTTCTGAATGAAATACGACAGCAGAGAAAGATGCCACTGAAATGCTGA
AATTATCTTTGCTGAGCAGCTTTTGAATGCTAAGGGTTCCAGTATGTGACCCAAAGAAAGAGTTGTCTCAACTCC
TTGGTACAGGGTTCATTCAAACCCCAAGCTGTGAGAGTGTGTTTATTTTTAATTTTTTAAAGGTATTTAATTT
CCAACCACACTTCTTATTTTTTTGAAAAGACAATTTCCATTTTCACTATTACATTTTACCAAGAAGTCACTGCTT
TTAGGTGTGTTGCATCAATATTTAAATAAAATCCCAGAAATGTATTTTAAAGAATTTAGGTTTGAAAACTCAA
ACCAACAGGAAGATATCACACCTTTGTATGTGCTTCTTTGTTCTTGAAGTAGTCATTATGGTTTATTGGAATCTA
CTGTAGCATAAGCTCCTAGGTTGCTCCATTTCTTAGGAAAATAGCAATGAATGAATGTATAGTAGCTGCATGTGT
GAACTACTGCTGTAAAGTTTGCTGACATTTCTGCAACAACATTTCTCCATCTGATTTACCAGAACCTGTAACAAG
ACCAGAACATGTATTATCCAGAACTCCTGGGCTCTGCTTTGTTCAAAGAGGAGCAAATCCACATAGAAATTAA
ATGTTATAAATTTATTTTTTTAAACTAATTTCCAAAGAATTTAGCTGAAGACTCAGAGTCAGCCTACCTCTTGAC
TCTCCACATCCGCATCTAAGATCCTGAAGGCCAAAGGAATGCGCCTGTGGGATGCCAAAGCCATCAGTAGCTGGA
AGAAAGAATACCTCTTTCTAGAGGTTTGGTGTCTCTTGCTGGCCTGTCAATTATTTGGAATACGCGCTTTTGGA
ATTTCTTTCATTTTCGCTATTTCCAGGTTTCAAGAAATCATACTACCACTTGTTCTTTCTTTGCCAGTAAACTC
AGGGTTTCTCTTATTTCAGAGTTACCATGTTGCACACCCCCAGTGCTCAGCCTGCCAGAAAGCCCTTCTCTGATCT
CAGCAAGATCTTAGTAGTAAAGCTAACGGATCCATTGAAATTCATACTCAGCATCTGTGACTACTAGACAAAGCC
CATTTACTGAACCATAAGTGTGCACTTTTAAACTAAATTGTTAACTGAAAGGGAAAAAATAGAAATGAGGGCATT
TTGAAGTTTTTTAGAAAAGAGAGGAAGAGCTGTTGGCCAGATCAAAGAGATACTTATAAGCCCGGCACAATTTTTA
ACATAAGTCATTCTGGCTATTAAGTAAAAATTTTCATGAACCAGAAGTCCTGTTTCTCTAATATTATAATTTGT
TGAGGTTTGTGTGTGTGTGTGTGTGTCATGTGCAGACACATGTACACATATAAATTGAATACAAAAATAGCTCTAT
AACACCAAAAAACAGAGTTTACAGAAAAATAAACACAAAAGCTATATCTGCAAGACAAGTTTGATTCATCTAGTTT
CATATAGTTTTCATATAGTTTTCATTTTTATTAATATTTAGGTTTAACTTATAGTTCTGCAATTATTTAAAAACAA
GTACAGAGCGTTTGATTAAAAAAGTCAACAAATGTTTCAAAACAGCTTTGTACAAATGTTATAAAACATATTTA
ATGATTAAGAAATGTACTAGACTCTATCATTTACTTTTTAAACATTTAATTAGAAAAACAGGTGATATTTAAGAC
TATTTATAAACTTATTGGCCAAATTGCCAAAAA

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FIGURE 1589

MAPRPRARPGVAVACCWLLTVVLRCCVSFNVDVKNSMTFSGPVEDMFGYTVQYENEEGKWVLIGSPLVGQPKNR
TGDVYKCPVGRGESLPCVKLDLPVNTSIPNVTEVKENMTFGSTLVNPNNGGFLACGPLYAYRCGHLHYTTGICSD
VSPTFQVVNSIAPVQECSTQLDIVIVLDGSNSIYPWDSVTAFLNDLLERMDIGPKQTQVGIVQYGENVTHEFNLN
KYSSTEEVLVAAKKIVQRGGRQMTALGIDTARKEAFTEARGARRGVKKVMVIVTDGESHDNHRLKKVIQDCED
NIQRFSIAILGSYNRGNLSTEKFVEEIKSIASEPTKHHFFNVDELALVTIVKTLGERIFALEATADQSAASFEM
EMSQTGFSAHYSQDWVMLGAVGAYDWNGTVVMQKASQIIIPRNTTFNVESTKKNEPLASYLG YTVNSATASSGDV
LYIAGQPRYNHTGQVIIYRMEDGNIKILQTLSGEQIGSYFGSILTTTDDIDKDSNTDILLVGAPMYMGTEKEEQGK
VYVYALNQTRFEYQMSLEPIKQTCSSRQHNSCTTENKNEPCGARFGTAIAAVKDLNLDGFNDIVIGAPLEDDHG
GAVYIYHGSGKTIRKEYAQRIPSGGDGKTLKFFGQSIHGEMDLNGDGLTDVTIGGLGGAALFWSRDVAVVKVTMN
FEPNKVNIQKKNCHMEGKETVCINATVCFDVKLKSKEDTIYEADLQYRVTLDSLRLQISRSFFSGTQERKVQRNIT
VRKSECTKHSFYMLTSMFRTL

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FIGURE 1590

GTGTAGGGGTAGATTTTCGCTGCAGTGTTCCTCGAGCCTGTTAGACGCAGCGCGCCGGGAGACTGAGAGAGGAAA
GGATAGAGGAAGTGCTGCCCTAGGCTGCATGAGTCGAAGCAAGCGTGTTTCCTTCCCGCCAGGCAAGTGCCCTTA
GAAACCGGGCCCCGCCCTTCTTGGCCTGCATTCCCATCCCCCTCTCCCGGGGCGGAGGTGAGGACCTCCTTGGT
TCCTTTGGTTCTGTGAGTGAAGCCCTTCTTGGCCATGAAGCTCGTGAGGAAGAATCGAGAAGGACAATGCGG
GCCAGGTGACCCTGGTCCCCGAGGAGCCTGAGGACATGTGGCACACTTACAACCTCGTGACAGGTGGGCGACAGCC
TGCGCGCCTCCACCATCCGCAAGGTACAGACAGAGTCCTCCACGGGCAGCGTGGGCAGCAACCGGGTCCGCACTA
CCCTCACTCTCTGCGTGGAGGCCATCGACTTCGACTCTCAAGCCTGCCAGCTGCGGGTTAAGGGGACCAACATCC
AAGAGAATGAGTATGTCAAGATGGGGGCTTACCACACCATCGAGCTGGAGCCCAACCGCCAGTTCACCCTGGCCA
AGAAGCAGTGGGATAGTGTGGTACTGGAGCGCATCGAGCAGGCCTGTGACCCAGCCTGGAGCGCTGATGTGGCGG
CTGTGGTCATGCAGGAAGGCCTCGCCCATATCTGCTTAGTCACTCCCAGCATGACCCTCACTCGGGCCAAGGTGG
AGGTGAACATCCCTAGGAAAAGGAAAGGCAATTGCTCTCAGCATGACCGGGCCTTGGAGCGGTTCTATGAACAGG
TGGTCCAGGCTATCCAGCGCCACATACTTTGATGTTGTAAAGTGCATCCTGGTGGCCAGCCCAGGATTTGTGA
GGGAGCAGTTCTGCGACTACCTGTTTCAACAAGCAGTGAAGACCGACAACAACTGCTCCTGGAAAACCGGTCCA
AATTTCTTCAGGTACATGCCTCCTCCGGACACAAGTACTCCCTGAAAGAGGCCCTTTGTGACCCTACTGTGGCTA
GCCGCCTTTTCAGACACTAAAGCTGCTGGGGAAGTCAAAGCCTTGGATGACTTCTATAAAATGTTACAGCATGAAC
CGGATCGAGCTTTCTATGGACTCAAGCAGGTGGAGAAGGCCAATGAAGCCATGGCAATTGACACATTGCTCATCA
GCGATGAGCTCTTCAGGCATCAGGATGTAGCCACACGGAGCCGGTATGTGAGGCTGGTGGACAGTGTGAAAGAGA
ATGCAGGCACCGTTAGGATATTCTCTAGTCTTCACGTTTCTGGGGAACAGCTCAGCCAGTTGACTGGGGTAGCTG
CCATTCTCCGCTTCCCTGTTCCCGAACTTTCTGACCAAGAGGGTGATTCCAGTTCTGAAGAGGATTAATGATTGA
AACTTAAATTGAGACAATCTTGTGTTTCCCTAAACTGTTACAGTACATTTCTCAGCATCCTTGTGACAGAAAAGCT
GCAAGAATGGCACTTTTTGATTTCATACAGGGATTTCTTATGTCTTTGGCTACACTAGATATTTTGTGATTGGCAA
GACATGTATTTAAACAATAAACTA

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FIGURE 1591

CTTCCCTTTTGC GGCTATCACC GAAGCAGGAGTGGCCAAAATGAAGTTTAATCCCTTTGTGACTTCGACCGAAG
CAAGAATCGCAAAGGCATTTCAATGCACCTTCCCACATTGGAAGGAAGACTATGTCTTCCCCTCTTTCCAAAGA
GCTGAGACAGAAGTACAACGTGTGATCCATGCCCATCCGAAAGGATGATGAAGTTCAGGTTGTACATGGACACTA
TAAAGGTCAGCAAATTGGCAAAGTAGTCCAGGTTTACAGGAAGAAATATGTTATCTACATTGAACGGGTGCAGCG
GGAAAAGGCTAATGGCACAACGTGCCACGTAGGCATTACCCCCAGCAAGGTGGTTATCACTAGGCTAAAACTGGA
CAAAGACTGTGAAAAGATCCTTGAACGGAAAGCCAAATCTTGCCAAGTAGGAAAGGAAAAGGGCAAATACAAGGA
AGAAACAATTGAGAAGATGCAGGAATAAGTAATCTTATATACAAGCTTCGATTAAAACTTGAAACAAAGAAAAA

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FIGURE 1592

GC GCGCGGCTCCGCTGGGAAGCGAGACCCGGGTGGCGGGACAAGACTTGCTTCCCGGCCACGCGCGCTCGGCCGG
CCGTGGGGCGGGGCATAGGCCGTGACGTGATGTCGCGTATCGAGTCTCCGCCCCCTTCCCGCCTCCCCGTATATA
AGACTTCGCCGAGCGCTCTCACTCGCACAAAGTGGACCGGGGTGTTGGGTGCTAGTCGGCACCAGAGGCAAGGGTG
CGAGGACCACGGCCGGCTCGGACGTGTGACCGCGCCTAGGGGGTGGCAGCGGGCAGTGCGGGGCGGCAAGGCGAC
CATGGAGCTTTTGGCGACTATCACCTACCAGCCAGCCGCCAGCACCAAAATGTGCGAGCAGGCGCTGGGCAAGGG
TTGCGGAGCGGACTCGAAGAAGAAGCGGCCGCCGAGCCCCCGAGGAATCGCAGCCACCTCAGTCCCAGGCGCA
AGTGCCCCCGGCGGCCCTCACCACCATCACCACCATTTCGCACTCGGGGGCCGAGATCTCGCGGATTATCGTCGA
CCCCACGACTGGGAAGCGCTACTGCCGGGGCAAAGTGCTGGGAAAGGGTGGCTTTGCAAAATGTTACGAGATGAC
AGATTTGACAAATAACAAAGTCTACGCCGCAAAATTATTCTCAGCAGAGTAGCTAAACCTCATCAAAGGGA
AAAGATTGACAAAGAAATAGAGCTTCACAGAATTCTTCATCATAAGCATGTAGTGCAGTTTTTACCACTACTTCGA
GGACAAAGAAAAATTTACATTCTCTTGAATACTGCAGTAGAAGGTCAATGGCTCATATTTTGAAAGCAAGAAA
GGTGTGACAGAGCCAGAAGTTCGATACTACCTCAGGCAGATTGTGTCTGGACTGAAATACCTTCATGAACAAGA
AATCTTGACAGAGATCTCAAAGTAGGGAACTTTTTTATTAATGAAGCCATGGAAGTAAAGTTGGGGACTTCGG
TCTGGCAGCCAGGCTAGAACCCTTGGAACACAGAAGGAGAACGATATGTGGTACCCCAAATTATCTCTCTCTGTA
AGTCCTCAACAAACAAGGACATGGCTGTGAATCAGACATTTGGGCCCTGGGCTGTGTAATGTATACAATGTTACT
AGGGAGGCCCCCATTTGAAACTACAAATCTCAAAGAACTTATAGGTGCATAAGGGAAGCAAGGTATACAATGCC
GTCTCATTGCTGGCTCCTGCCAAGCACTTAATTGCTAGTATGTTGTCCAAAACCCAGAGGATCGTCCCAGTTT
GGATGACATCATTGACATGACTTTTTTTTTGAGGGCTTCACTCCGGACAGACTGTCTTCTAGCTGTTGTCATAC
AGTTCCAGATTTCCACTTATCAAGCCAGCTAAGAATTTCTTTAAGAAAGCAGCTGCTGCTCTTTTTGGTGGCAA
AAAAGACAAAGCAAGATATATTGACACACATAATAGAGTGTCTAAAGAAGATGAAGACATCTACAAGCTTAGGCA
TGATTTGAAAAAGACTTCAATAACTCAGCAACCCAGCAAAACACAGGACAGATGAGGAGCTCCAGCCACCTACCAC
CACAGTTGCCAGGTCTGGAACACCCGCAGTAGAAAACAAGCAGCAGATTGGGGATGCTATTCCGGATGATAGTCAG
AGGGACTCTTGGCAGCTGTAGCAGCAGCAGTGAATGCCTTGAAGACAGTACCATGGGAAGTGTGTCAGACACAGT
GGCAAGGGTTCTTCGGGGATGTCTGGAAAACATGCCGGAAGCTGATTGCATTCCTCAAAGAGCAGCTGAGCACATC
ATTTAGTGGGTACCAAATGGGTTGATTACTCTAACAATATGGCTTTGGGTACCAGCTCTCAGACCACACCGT
CGGTGTCTTTTCAACAATGGTGTCTCATGAGCCTCCTTCAGACAAAAAACAGTTCACTATTACGCAGAGCT
TGGCCAATGCTCAGTTTTCCAGCAACAGATGCTCCTGAGCAATTTATTAGTCAAGTGACGGTGTGAAATACTT
TTCTCATTACATGGAGGAGAACCTCATGGATGGTGGAGATCTGCCTAGTGTACTGATATTGGAAGACCTCGGCT
CTACCTCCTTCAGTGGCTAAATCTGATAAGGCCCTAATGATGCTCTTTAATGATGGCACCTTTCAGGTGAATTT
CTACCATGATCATACAAAAATCATCATCTGTAGCCAAATGAAGAATACCTTCTCACCTACATCAATGAGGATAG
GATATCTACAACTTTCAGGCTGACAACCTCTGCTGATGTCTGGCTGTTTCATCAGAATTAATAAATCGAATGGAATA
TGCCCTGAACATGCTCTTACAAAGATGTAAGTGAAGACTTTTCGAATGGACCCTATGGGACTCCTCTTTTCCAC
TGTGAGATCTACAGGGAACCCAAAAAGATGATCTAGAGTATGTTGAAGAAGATGGACATGTGGTGGTACGAAAAC
AATTCCTCTGTGGCCTGCTGGACTGGGTGGAACCAGAACAGGCTAAGGCATACAGTTCTTGACTTTGGACAATCC
AAGAGTGAACCAGAATGCAGTTTTCTTGAGATACCTGTTTTAAAGGTTTTTCAGACAATTTGCAGAAAGGTG
CATTGATTCTTAAATTCTCTCTGTTGAGAGCATTTCAGCCAGAGGACTTTGGAAGTGTGAATATACTTCCTGAAG
GGGAGGGAGAAGGGAGGAAGCTCCCATGTTGTTTAAAGGCTGTAATTGGAGCAGCTTTTGGCTGCGTAACTGTGA
ACTATGGCCATATATAATTTTTTTTTCATTAATTTTTGAAGATACTTGTGGCTGGAAAAGTGCATTCTTGTTAAT
AACTTTTTATTATTACAGCCCAAAGAGCAGTATTTATTATCAAATGTCTTTTTTTTTATGTTGACCATTTTA
AACCGTTGGCAATAAAGAGTATGAAAACGC

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FIGURE 1593

ATGGAAGGCATCACCGCTGTCACGGTCAACCAGAGCCTGCTGAACTCCCTTAACTGGAGATGGACTCCAGCATCC
AGGAGACCACACCCAGGAGAAGAACCAGATCAAGACACTCAACAACAAGTTTGCCTCCTTCATAGACAAGGTACA
GTTCTGAGCAGCAGACAAGATGCTGGAGACCAACTGGAGCCTCCTGCAGCAGGAGAAGATGGCTCGGAGCAA
CATGGACAACATGAGAAGCTGAAGCTGGAGGCGGAAC TTGGCAACATGCAGGGGCTGCTGGAGGACTTCAAGAAC
AAGTATGAGGATGAGATCAATAAGCGTACAGGGATGGAGAATGAATTTTCTCATCAAGAAGGATGTGGATAAA
GCTTACATGACAAGGCAGCTGTATGAAGAGGAGATCCAGGAGCTGCAGTCCCAGATCTCGGACACGTCTGTGGTG
CTGTCCATGGACAACAGCCGCTCCCTGGACATACGTGGGGAGCTGGCCGATAAGGATGCCAACGCCAAGCTGTCT
GAGCTGGAGGCCGCCCTGCAGTGGACCAAGCAGGACATGGGCGGCAGCTGCCTGCTGGAGGGCGAGGAGAGCCGG
CTGGAGTCTGGGATGCAGAACATGAGTATCCGTACGAAGACCACCAGCGGCTATGCAGGTGGTCTGAGCTCGACC
TATGGGGGCCCTCACAAGCCCCGGCCTCAGCTACGGCCTGGGCTCCAGTTTTGGCTCTGGTGCGGGCTCCTGCGCT
TTCAGCCGCACCTGCTCCATCAGGGCCATGATTGTGAAGAAGATTGAGACCCACGATGGGAAGCTGGTGTCCGAG
TCCTCTGACGTCCTGCTCAAGTGA

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FIGURE 1594

MEGITAVTVNQSLNLSLNWRWTPASRRPHPGEEPDDQTQQQVCLLHRQGTVPGAAEQDAGDQLEPPAAGEDGSEQ
HGQHEKLEAEELGNMQGLEDKFNKYEDEINKRTGMENEFLLIKDVKAYMTRQLYEEIQLQSQISDTSVV
LSMDNSRSLDIRGELADKDANAKLSELEAALQWTKQDMGGSCLEGEESRLESGMQNMSIRTKTTSYAGGLSST
YGGLTSPGLSYGLGSSFGSGAGSCAFSRTCSIRAMIVKKIETHDGKLVSESSDVLLK

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FIGURE 1595

GTTGAAGGAGGCATTGTTTTGGGAGGGGGTTTTGCCCTCCTTCGATGCATTCCAGCCTTGGACTCATTGACTCCA
GCTAATGAAGATCAAAAAATTGGTATGGAAATTGTTAAAAGAACACTCAAAATTCAGCAATGACCACTGCTACG
AATGCAGGTGTTGAAGGATCTTTGATAGTTGAGAAAATTATGCAAAATTCCTCAGAAGTTGGTTATGATGCTATG
GTTGGAGATTTTATGAATATGGTAGAAAAAGGAATTATTGACCCAACAAAGCTTGTGAGAACTGCTTTATTGGAT
GCTGCTGGTGTGGCCTCTCTGTAACTACAGCAGAAGTTGTAGTCACAGAAATTCCTAAAGAAGAGAAGGACCCCT
GGAATGGGTGCAATGGGTGGAATGGGAGGTGGTATGGGAGGTGGCATGTTCTAACTCCTAGACTAGTGCTTTACC
TTTATTAATGAACTGTGACAGGAAGCCCAAGGCAGTGTTTCCTCACCAATAACTTCAGAGAAGTCAGTTGGAGAAA
ATGAAAAATATATAATGGTTTACTGCTGTCATTGTCCATGCCACAGATAATTTATTTTGTATTTTGAATAAAA
AACATTTGTACATTCTGATACTGGGTACAAGAGCCATGTACCAATGTACTGCTTT

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FIGURE 1596

ACCTGTCTCGCCGCGCGCATGCCCTGCAGCCGCCCCACAGAAATGCTTCGGTTACCCACAGTCTTTCGCCAGATG
AGACCAGTGTCCAGGGTACTGGCTCCTCATCTCACTCGAGCTTATGCCAAAGATGTAAAATTTGGTGCAGATGCC
CGAGCCTTAATGCTTCAAGGTGTAGACCTTTTAGCCGATGCTGTGGCCGTTACAATGGAGCCAAAGGGAAGAACA
GTGATTATTGAGCAGAGCTGGGGAAGTCCCAACGTAACAAAAGATGGTGTGACTGTTGCAAAGTCAATTGACTTG
AAGGATAAATATAAAAACATTGGAGCTAAACTTGTTCAAGATGTTGCCAATAACACAAATTGAAAAACGTATTCA
AGAAATCATTGGGCAGTTAGATGTCACAACTAGTGAATATGAAAAGGAAAACTGAATGAATGGCTGGCAAACT
TTCAGATGGAGTAGTTGTGCTGAAGTTTGGTGGGACAAGTGATGTTGAAGTGAATGAAAAGAAAGACAGAGTTAC
AGATGCCCTTAATGCTACAAGAGCTGCTGTTGAAGGAGGCATTGTTTTGGGAGGGGGTTTTGCCCTCCTTCGATG
CATTCCAGCAATGACCACTGCTACGAATGCAGGTGTTGAAGGATCTTTGATAGTTGAGAAAATTATGCAAAATTC
CTCAGAAGTTGGTTATGATGCTATGGTTGGAGATTT

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FIGURE 1597

CTCTGTCCCTCACTCGCCGCCGACAACCTGTCTCGCCGCGCGCATGCCCTGCAGCCGCCCCACAGAAATGCTTCG
GTTACCCACAGTCTTTTCGCCAGATGAGACCAGTGTCCAGGGTACTGGCTCCTCATCTCACTCGAGCTTATGCCAA
AGATGTAAAATTTGGTGCAGATGCCCCGAGCCTTAATGCTTCAAGGTGTAGACCTTTTAGCCGATGCTGTGGCCGT
TACAATGGAGCCAAAGGGAAGAACAGTGATTATTGAGCAGAGCTGGGGAAGTCCCAACGTAACAAAAGATGGTGT
GACTGTTGCAAAGTCAATTGACTTGAAGGATAAATATAAAAACATTGGAGCTAAACTTGTTCAAGATGTTGCCAA
TAACACAAATGAAGAATCTGGGGATGGCACTACCACTGCTACTGTACTGGCAGGCTCTATAGCCAAGGAAGGCTT
CCAGAAGATTAGCAAAGGTGCTAATCCAGTGGAAATCAGGAGAGGTGTGATGTTAGCTGTTGATGCTGTAATTGC
TGAACCTTAAAAAGCAGTCTAAACCTGTGACCACCCCTGAAGAAATTGCACAGGTTGCTATGATTTCTGCAAATGG
AGACAAAGAAATTGGCAATATCATCTCTGATGCAATGAAAAGGTTGGAAGAAAGGGTGTCAACAGTAAAGGA
TGGA AAAA CACTGAATGATGAATTAGAAATTATTGAAGGCATGAAGTTTGATTGAGGGTATATTTCTCCATACTT
TATTAATACATCAAAAAGGTCAGAAATGTGAATTCCAGGATGCCTATGTTCTGTTGAGTGAAAAGAAAATTTCTAG
TGTCAGTCCATTGTACCTGCTCTTGAAATTGCCAATGCTCACCATAAGCCTTTGGTGATAATCGCTGAAGATGT
TGATGGAGAAGCTCTAAGTACACTCATCTTGAATAGGCTAAAGGTTGGTCTTCAGGTTGTGGCAGTCAAGGCTCC
AGGGTTTGGTGACAATAGAAAAGAACCACTTAAAGATATGGCTATTGCTACTGGTGGTGCAGTGTGTTGGAGAAGA
GGGGTTGACCCTGAATCTTGAAGATGTTGAGCCTCATGACTTAGGAAAAGTTGGAGAGGTCATTGTGACCAAAGA
CGATGCCATGCTCTTAAAAGGAAAAGGTGACAAGGCTCAACTTGAAAACGTATTCAAGAAATCATTGGGCAGTT
AGATGTCACAACTAGTGAATATGAAAAGGAAAACTGAATGAATGGCTGGCAAACTTTTCAGATGGAGTAGTTGT
GCTGAAGTTTGGTGGGACAAGTGATGTTGAAGTGAATGAAGGCATTGTTTTGGGAGGGGGTTTTGCCCTCCTTCG
ATGCATTCCAGCCTTGGACTCATTGACTCCAGCTAATGAAGAT

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FIGURE 1598

ACGAACAGGCCAATAAGGAGGGAGCAGTGC GGGGTTTTAAATCTGAGGCTAGGCTGGCTCTTCTCGGCGTGCTGCG
GCGGAACGGCTGTTGGTTTCTGCTGGTTGTAGGTCCTTGGCTGGTCGGGCCTCCGGTGTTCTGCTTCTCCCCGCT
GAGCTGCTGCCTGGTGAAGAGGAAGCCATGGCGCTCCGAGTCACCAGGAACTCGAAAATTAATGCTGAAAAAAG
GCGAAGATCAACATGGCAGGCGCAAAGCGCGTTCCCTACGGCCCCTGCTGCAACCTCCAAGCCCGGACTGAGGCCA
AGAACAGCTCTTGGGGACATTGGTAACAAAGTCAGTGAACAACCTGCAGGCCAAAATGCCTATGAAGAAGGAAGCA
AAACCTTCAGCTACTGAAAAAGTCATTGATAAAAACTACCAAAACCTCTTGAAAAGGTACCTATGCTGGTGCCA
GTGCCAGTGTCTGAGCCAGTGCCAGAGCCAGAACCTGAGCCAGAACCTGAGCCTGTAAAGAAGAAAACTTTTCG
CCTGAGCCTATTTTGGTTGATACTGCCTCTCCAAGCCCAATGGAACATCTGGATGTGCCCCTGCAGAAGAAGAC
CTGTGTCAGGCTTTCTCTGATGTAATTCTTGCAAGTAAATGATGTGGATGCAGAAGATGGAGCTGATCCAAACCTT
TGTAAGTGAATATGTGAAAGATATTTATGCTTATCTGAGACAACCTTGAGGAAGAGCAAGCAGTCAGACCAAAATAC
CTACTGGGTCGGGAAGTCACTGGAAACATGAGAGCCATCCTAATTGACTGGCTAGTACAGGTTCAAATGAAATTC
AGGTTGTTGCAGGAGACCATGTACATGACTGTCTCCATTATTGATCGGTTTCATGCAGAATAATTGTGTGCCCAAG
AAGATGCTGCAGCTGGTTGGTGTCAGTGCATGTTTATTGCAAGCAAATATGAAGAAATGTACCTCCAGAAATT
GGTGACTTTGCTTTTGTGACTGACAACACTTATACTAAGCACCAAATCAGACAGATGGAAATGAAGATTCTAAGA
GCTTTAACTTTGGTCTGGGTCGGCCTCTACCTTTGCACTTCCTTCGGAGAGCATCTAAGATTGGAGAGGTTGAT
GTCGAGCAACATACTTTGGCCAAATACCTGATGGAACCTAATGTTGGACTATGACATGGTGCACTTTCCTCCT
TCTCAAATTGCAGCAGGAGCTTTTGTGCTTAGCACTGAAAATTCTGGATAATGGTGAATGGACACCAACTCTACAA
CATTACCTGTCATATACTGAAGAATCTCTTCTCCAGTTATGCAGCACCTGGCTAAGAATGTAGTCATGGTAAAT
CAAGGACTTACAAAGCACATGACTGTCAAGAACAAGTATGCCACATCGAAGCATGCTAAGATCAGCACTCTACCA
CAGCTGAATTCTGCACTAGTTCAAGATTTAGCCAAGGCTGTGGCAAAGGTGTAACTTGTAACCTTGAGTTGGAGT
ACTATATTTACAAATAAAATTGGCACCATGTGCCATCTGTAAAAA
AAA

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FIGURE 1599

MALRVTRNSKINAENKAKINMAGAKRVPTAPAATSKPGLRPRTALGDIGNKVSEQLQAKMPMKKEAKPSATGKVI
DKKLPKPLEKVPMLVPVPVSEPVPEPEPEPEPEPVKEEKLSPPEILVDTASPSMETSGCAPAEEDLCQAFSDVI
LAVNDVDAEDGADPNLCSEYVKDIYAYLRQLEEEQAVRPKYLLGREVTGNMRAILIDWLQVQMKFRLQETMYM
TVSIIIDRFMQNNCVPKKMLQLVGVTAMFIASKYEEMYPPEIGDFAFVTDNTYTKHQIRQMEMKILRALNFGLGRP
LPLHFLRRASKIGEVDVEQHTLAKYLMELTMLDYDMVHFPPSQIAAGAFCLALKILDNGEWTPTLQHYLSYTEES
LLPVMQHLAKNVVMVNQGLTKHMTVKNKYATSKHAKISTLPQLNSALVQDLAKAVAKV

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FIGURE 1600

GCTGGCAAGCGCTTCCTGCGCAGCGCCTAGGCGACCTGGAGTTTGTGACGCTGTGATGGTCTAGAGGCTGGAGAT
TCAAGATCTGGGTGCCATCATTCTGTTCTGTTGATGACCTCTTCCAGGTTACATACAGCTTACATCTTGCA
TCCTCAAGCGTTTTTCTTATAAGGCTAAAAATTCACAAAGCATATATCAATGAATCAGGAGGATCTAGATCCGGA
TAGTACTACAGATGTGGGAGATGTTACAAATACTGAAGAAGAACTTATTAGAGAATGTGAAGAAATGTGGAAAGA
TATGGAAGAATGTCAGAATAAATTATCACTTATTGGAAGTGAACACTCACCGATTCAAATGCTCAGCTATCATT
GTTAATTATGCAAGTAAATGTTTAACCGCTGAACTCAGTCAATGGCAGAAAAAACACCTGAAACAATTCCTT
GACTGAAGACGTTCTCATAACATTAGGAAAAGAAGAGTTCCAAAAGCTGAGACAAGATCTTGAAATGGTACTGTC
CACTAAGGAGTCAAAGAATGAAAAGTTAAAGGAAGACTTAGAAAAGGGAACAACGGTGGTTGGATGAACAGCAACA
GATAATGGAATCTCTTAATGTACTACACAGTGAATTGAAAAATAAGGTTGAAACATTTTCTGAATCAAGAATCTT
TAATGAACTGAAAACATAAATGCTTAATATAAAAGAATATAAGGAGAAAACCTTGAGTACCTTGGGCGAGTTTCT
AGAAGACCATTTTCTCTGCTGATAGAAGTGTTAAAAAGAAAAAGAAAAACATTCAAGAATCATCTGTAAACCT
GATAACACTGCATGAAATGTTAGAGATTCTTATAAATAGATTATTTGATGTTCCACATGATCCATATGTCAAAAT
TAGTGATTCTTTTGGCCACCTTATGTTGAGCTGCTGCTGCGTAATGGAATTGCCTTGAGACATCCAGAAGATCC
AACCCGAATAAGATTAGAAGCTTTCCATCAGTAAAGGATGTTTTCTTTTTTTCACACAGTAAAAATTCTTATCAT
TCAAGGATATTGGAACACAGGACTATTTGGATAAAAAACATTATTTGCAAATTAATGCGCATAGGCCATCTTAC
TTTTATTGCAAAATGGCATGTGCTGCCATCTATTATTCATTTTTAAATGGTCATTTCTTATTTCAGTGAGTGCTTT
AGTGTTTTAACTATATGGATAAGAATGCAGGTAGATAATATTCTAGGCATAAAACATTTAATGTACCTTACCTC
ATGCAATATTCTTTGGATTCTTTGTTGATTTATGATATTGCTAATATAATATTTTCTTAAATATATAACAATAT
CTTTTATGCATTTTGGATTCCAGCTGGTGCTTCTTTATATTTAGAAATTATAATGGGAAGGTCATTTAATTTACA
GATGGTTTTAAATTTAGGTAATATCTGAGGTGGCATAATTTAAAAATATTTAGCAAATTTGTTTCATATATACT
GTCTTATTTCTAGATTTGTTTAAATTTGGAATATGAAAACTAATGGATAAAGCTAGCATAAAATTGATATTTTA
GTTTGTATTATTAATATATCATGTTACCTTATATATTAATCTACTCTTGATTCTGCTAATTATTACCAACAAAAT
TGTATTCATGACATTTTATTAATCCTCTGTGAATTTTCTGTAAATAAAATTTATTTCTGAAAATCTCT

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FIGURE 1601

MNQEDLDPDSTTDVGDVTNTEEEELIRECEEMWKDMEECQNKLSLIGTETLTDSNAQLSLLIMQVKCLTAELSQWQ
KKTPEIPLTEDVLITLGKEEFQKLRQDLEMVLSTKESKNEKLKEDLEREQRWLDEQQQIMESLNVLHSELKNKV
ETFSESRIFNELKTKMLNIKEYKEKLLSTLGEFLEDHFPLPDRSVKKKKKNIQESSVNLITLHEMLEILINRLFD
VPHDPYVKISDSFWPPYVELLLRNGIALRHPEDPTRIRLEAFHQ

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FIGURE 1602

GCAGGAAGATGCGCGGTAGCGGAGGTGTGAGTGGACGCGGGACTCAGCGGCCGGATTTTCTCTTCCCTTCTTT
TCCCTTTTCCCTTCCCTATTTGAAATTGGCATCGAGGGGGCTAAGTTCGGGTGGCAGCGCCGGGCGCAACGCAGGG
GTCACGGCGACGGCGGGCGGGCTGACGGCTGGAAGGGTAGGCTTCATTACCGCTCGTCTCCTTCCCTCGCTCC
GCTCGGTGTGAGGCGCGGGCGGGCGGGCGGGGCGGACTTCGTCCCTCCTCCTGCTCCCCCCCACACCGGAGCGG
GCACTCTTCGCTTCGCCATCCCCGACCCCTTACCCCGAGGACTGGGCGCCTCCTCCGGCGCAGCTGAGGGAGCG
GGGGCCGGTCTCCTGCTCGGTGTGCGAGCCTCCATGTCGGATAATCAGAGCTGGAACCTCGTCGGGCTCGGAGGAG
GATCCAGAGACGGAGTCTGGGCCGCTGTGGAGCGCTGCGGGGTCTCAGTAAGTGACAAACTACATTCATGGG
TGGCAGGATCGTTGGGTAGTTTTGAAAAATAATGCTCTGAGTTACTACAAATCTGAAGATGAAACAGAGTATGGC
TGCAGAGGATCCATCTGTCTTAGCAAGGCTGTCTATCACACCTCACGATTTTGATGAATGTCGATTTGATATTAGT
GTAAATGATAGTGTTTGGTATCTTCGTGCTCAGGATCCAGATCATAGACAGCAATGGATAGATGCCATTGAACAG
CACAAGACTGAATCTGGATATGGATCTGAATCCAGCTTGCCTCGACATGGCTCAATGGTGTCCCTGGTGTCTGGA
GCAAGTGGCTACTCTGCAACATCCACCTCTTCATTCAAGAAAGGCCACAGTTTACGTGAGAAGTTGGCTGAAATG
GAAACATTTAGAGACATCTTATGTAGACAAGTTGACACGCTACAGAAGTACTTTGATGCCTGTGCTGATGCTGTC
TCTAAGGATGAACTTCAAAGGGATAAAGTGGTAGAAGATGATGAAGATGACTTTCTACAACGCGTTCTGATGGT
GACTTCTTGATAGTACCAACGGCAATAAAGAAAAGTTATTTCCACATGTGACACCAAAGGAATTAATGGTATA
GACTTTAAAGGGGAAGCGATAACTTTTAAAGCAACTACTGCTGGAATCCTTGCAACACTTTCTCATTGTATTGAA
CTAATGGTTAAACGTGAGGACAGCTGGCAGAAGAGACTGGATAAGGAAACTGAGAAGAAAAGAAGAACAGAGGAA
GCATATAAAAAATGCAATGACAGAACTTAAGAAAAAATCCCACCTTGGAGGACCAGATTATGAAGAAGGCCCTAAC
AGTCTGATTAATGAAGAAGAGTTCTTTGATGCTGTTGAAGCTGCTCTTGACAGACAAGATAAAATAGAAGAACAG
TCACAGAGTGAAAAGGTGAGATTACATTGGCCTACATCCTTGCCCTCTGGAGATGCCTTTTCTTCTGTGGGGACA
CATAGATTTGTCCAAAAGCCCTATAGTCGCTCTTCCCTCCATGTCTTCCATTGATCTAGTCAGTGCCTCTGATGAT
GTTACAGATTTCAGCTCCCAGGTTGAAGAGATGGTGCAGAACCACATGACTTACTCATTACAGGATGTAGGCGGA
GATGCCAATTGGCAGTTGGTTGTAGAAGAAGGAGAAATGAAGGTATACAGAAGAGAAGTAGAAGAAAATGGGATT
GTTCTGGATCCTTTAAAGCTACCCATGCAGTTAAAGGCGTCACAGGACATGAAGTCTGCAATTATTTCTGGAAT
GTTGACGTTGCAATGACTGGGAAACAACCTATAGAAAACCTTCATGTGGTGGAACATTAGCTGATAATGCAATC
ATCATTTATCAAACACACAAGAGGGTGTGGCCTGCTTCTCAGCGAGACGTATTATATCTTTCTGTCAATTCGAAAG
ATACCAGCCTTGACTGAAAATGACCCTGAAACTTGGATAGTTTGTAAATTTTCTGTGGATCATGACAGTGTCTCT
CTAAACAACCGATGTGTCCGTGCCAAAATAAATGTTGCTATGATTTGTCAAACCTTGGTAAGCCCACCAGAGGGA
AACCAGGAAATTAGCAGGGACAACATTCTATGCAAGATTACATATGTAGCTAATGTGAACCCTGGAGGATGGGCA
CCAGCCTCAGTGTTAAGGGCAGTGGCAAAGCGAGAGTATCCTAAATTTCTAAAACGTTTTACTTCTTACGTCCAA
GAAAAAATGTCAGGAAAGCCTATTTTGTTCCTAGTATTAACAGGTACTAGAAGATAATGTTTTATCTTTTTTAACT
TTATTTGACTAATATGACTGTCAATACTAAAATTTAGTTGTTGAAAGTATTTACTATGTTTTT

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FIGURE 1603

MSDNQSWNSSGSEEDPETESGPPVERCGVLSKWTNYIHGWQDRWVVLKNNALSYKSEDETEYGCRGSICLSKAV
ITPHDFDECRFDISVNDVWYLRAQDPDHRQQWIDAIEQHKTESGYGSESSLRRHGSMVSLVSGASGYSATSTSS
FKKGHSLREKLAEMETFRDILCRQVDTLQKYFDACADAVSKDELQRDKVVEDDEDDFPTTRSDGDFLHSTNGNKE
KLFPHVTPKGINGIDFKGEAITFKATTAGILATLSHCIELMVKREDQKRLDKETEKRRTEEAYKNAMTELKK
KSHFGGPDYEEGPNSLINEEEFFDAVEAALDRQDKIEEQSQSEKVRHLHWPTSLPSGDAFSSVGTHRFVQKPYSRS
SSMSSIDLVSASDDVHRFSSQVEEMVQNHMTYSLQDVGGDANWQLVVEEGEMKVYRREVEENGIVLDPLKATHAV
KGV TGHEVCNYFWNVDRNDWETTIENTFHVETLADNAIIYQTHKRVWPASQRDVLYLSVIRKIPALTENDPET
WIVCNFSVDHDSAPLNNRCVRKINVAMICQTLVSPPEGNQEISRDNILCKITYVANVNPGGWAPASVLRVAKR
EYPKFLKRFTSYVQEKTAGKPILF

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FIGURE 1604

AGTACAATCTGCTGCCCAGGACCTGGACATTGACAGATAAAATGAAGTGGGTCAGTTAACTACAGAGGGAAGAAT
ATGAAGAACTGCTTCATTATGCTATAGTGACTCCAAATATTGAACCCCTGTGCTTCACAGTCATCTCATCCTAAGG
GAGAATTGGTGCCAGATGTCAGAATTTCTACAATTCATGATATTCTTCATAGTCAAGGAAATAACTCTGAAGTAA
GAGAACTGCAATAGAAGTTGGAAAAGGATGTGATTTCCATATTTCAAGTCATTCAAAGACAGATGCTACAACCTT
TTCTTTTATTCAGAGTCATCACCAGTGTTATCGCCAAGGAAGCCTTCTCAGGTCATGGATTTTTTCAGTTCA
CATCTTTTAGCTGACTCTTCCTCACCAGCAACAAATTCTAGTCATACAGATGCCCATGAAATACTTGTGAGCGAT
TTTCTTGTTTCTGATGAAAACCTTCAGAAGATGGAAAATGTGCTTGATCTTTGGAGTTCAGGTCTTAAGACAAAC
ATCATATCTGAACTAAGTAAATGGAGACTTAATTTTATTGACTGGCACCGAATGGAAATGAGAAAAGAGAAAGAA
AAACATGCAGCACATTTAAACAACCTGTGTAATCAGATCAATGAATTGAAGGAGCTGCAAAAACCTTTGAAATC
TCCATTGGGAGAAAAGATGAGGTGATTTCTAGCTTGTCTCATGCCATAGGCAAGCAAAAGGAAAAGATAGAGTTG
ATGAGAACATTCTTCCACTGGCGAATCGGCCATGTGAGAGCCAGACAGGATGTTTATGAAGGTAACTAGCTGAC
CAGTACTACCAGAGAACTTTACTGAAGAAAGTCTGGAAAGTCTGGCGTTCCGTAGTGCAAAAGCAGTGGAAGAT
GTGGTAGAAAAGAGCTTGTCAGCAAGAGCTGAAGAAGTTTGTATCCAGATTTCCAATGATTATGAAGCCAAAGTT
GCTATGTTATCTGGAGCTTTGGAAAATGCAAAAGCTGAGATTCAAAGAATGCAACATGAAAAAGAGCACTTTGAA
GATTCCATGAAAAAGCTTTCATGAGGGGTGTATGTGCATTAAATCTTGAAGCCATGACTATATTTCAAAACAGA
AATGATGCAGCTCCTCCGATGCCCTTACCAGTTACATCACCAGTCTGCTGCCATCCCCACCAGCCGCCGTGCGAGGA
GCCAGCGCGACTGCCGTTCCCTCAGCTGCTTCGATGACTTCTACCAGGGCTGCTTCCGCATCTTCTGTTACGTT
CCTGTTTCTGCTCTTGGTGCAGGATCTGCAGCTACTGCTGCATCAGAAGAAATGTATGTGCCAAGAGTTGTAACC
TCTGCACAACAGAAAGCAGGAAGAAGTATTACAGCCCGGATCACAGGAAGATGTGATTTTGCTTCAAAAATAGA
ATTAGCAGCAGTTTAGCTATAATGGGAGTTTCTCCTCCCATGAGCTCAGTTGTTGTGGAAAAACATCATCCAGTC
ACAGTGCAAACCATTCCTCAAGCAACTGCAGCAAAATATCCCCGGACCATTCATCCTGAAAGTAGTACCTCAGCT
TCCAGATCACTTGGAACCAGATCAGCTCACACCCAGTCTCTCACAAGTGTTTATTCCATAAAAGTGTTGACTAA
AGTGAATATGTCCATAGTGGGGTCTTTTAATCCCTCTGGTCTTACCAAGGGTTAGAAGTCTTTTGGTTTTAACTT
TTCCATATTGTTAGAACATCATGGAGACATCATGTTTCTGTTCAAAATTACAAGAGGCTTTTTCAAGCTCTAC
CATGCTTTGTAACATATGTAGAAATTATTTTAATGTTATTTTTTATTTAAGCAATTAAGTAAAACCTTTTTTAA
TT

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FIGURE 1605

MSSDEEKYSLPVVQNDSSRGSSVSSNLQEEYEELLHYAIVTPNIEPCASQSSHPKGELVPDVRISTIHDILHSQG
NNSEVRETAIEVGKGCDFHISSHSKTDESSPVLSPRKPSHPVMDFFSSHLLADSSSPATNSSHTDAHEILVSDFL
VSDENLQKMENVLDLWSSGLKTNIISELSKWRLNFDWHRMEMRKEKEKHAHLKQLCNQINELKELQKTFEISI
GRKDEVISLSHAIGKQKEKIELMRTFFHWRIGHVRARQDVYEGKLADQYYQRTLLKKVWVWRSVVKQWKDVV
ERACQARAEVCIQISNDYEAKVAMLSGALENAKAEIQRMQHEKEHFEDSMKKAFMRGVCALNLEAMTIFQNRND
AGIDSTNNKKEEYGPGVQGKEHSAHLDPSPMPPLPVTSPLLPSPPAVGGASATAVPSAASMTSTRAASASSVH
VPVSALGAGSAATAASEEMYVPRVVTSAQQKAGRTITARITGRCDFASKNRISSSLAIMGVSPPMSSVVVEKHHP
VTVQTIPQATAAKYPRTIHPESSTSASRSLGTRSAHTQSLTSVHSIKVVD

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FIGURE 1606

ATGGAGGGTCGTGGCTATGCCAAGGAGGGACTAAAAGATCTGGCCACCAGGACACCCAGAACTCCTAAGAAGAAA
TTAACATCTTGTGAGCAGCCCTTTGGCTGTGAAAATGCAAATGACTCAGACTGGCTGCCAAGAGTCACCTGTGAA
GCTCAACTGGCACAGGACTCAGGGCTGAGCTCCATTCTTAACTCTCCATCCCATACAGCCAAACAAGCAGAACAC
AGGTTGCGCCCAAGGGTTCTGAACCCAGGATGTATAAAGAAGATGGGCCAGCGAGAGCTCACCGGATGCCGCCAG
AACCGCGACGCTTTCCAAGGCACGGGGCCCTCTCTCGGGGCGAACCCATTCCAGGGCGCCCTGCCCTTCACAAAG
AAAAGAGAACTCTCCCCGGGGCTCCCGCCGGCTTCTCCGGGATCGGTACGTTTCCCAGAATTAAACAGAAAAAG
CCTGGGAGTGGGCAAGTTGGCAAAAGGAAGAGAGGCCTGTTTGGCTGTGACATGTGGGTGGAGGGTCATAAAGGC
CAGGTGGGGAATGGCAGTGTCCGGCTGAGGGAGGGAGCTGCCACACTGCCTGATCATTGCGTGGCAGCAGCGGG
GAGGAGATCGGCAGCACCTTTGGCCACAGAGCTGCGCCTCTGTCAAAACAGGCAGCGCTGCAGGCGGCCAGAGA
TCCACTTCCACAGATTCTCGTGGCCAGGGCAGGGGTGTGTTGTGGTGGGCAGACTGGCCAGGCGACCCTGGCCCA
CCATCACCTCTCTTTCACAGCCCAGATGCGTTCTCGGGGCCCCAGGCCTGCACCCGTTTCTTCTCCCGCATCACG
AAGGCCAATGTGGACCTGCTCCGAGGGGGGCTCCCGAGCGACAGCGGCTGCTGCCTGCGGCTCTGGCCTGCTGG
GGGCTGGGGCCAGCGCGGGGCGGAGAGGGCTCGGCAGTTCCAAAAGCGCTGAGGCCAGCCTCTCTGCAGGGTGTG
CGGGGGTCTCTGCTGAGCGAGGCTGATGTGCGGGCTCTGGGAGGCCTGGCTTGCACCTGCCTGGGCGCTTTGTG
GCCGAGTCGGCCGAAGTGCTGCTACCCCGGCTGAGGACTGCCATCAGGCTACAAGGCCACTTTGCCACAACAGGC
AGAAAACAAGGAACACTTGGGAATTTACATCTCCTTGTTTGGCCCTTAGACAATGATCAACTTGTATTGGAATAT
GAAACCCAGCTCCCTGGCCTGAGTCTGATCAAACCTCTCAGGATTTTTTAAAAACCCTCAGTGGACAAAAGTCTACT
CACGCTGCTTTGGTAGAATTGGACATAGCCAAGGAGCTCATCAGAAAAGGAGCTGCTAGTCACAGGCAGCAACAA
ACCCACCTCCACACAGGGATCCACTGTGGGGCTGCAATAACTGCTCCTTCTCTGAGTGATACAGGACATTCTGAG
GAAAAGTGGCTGGTGGATGGGCAGTATGTAATGACACAAGCTCATGAGTACAAGCTGAGACATGATGGGAGTCTA
CGGGTCCCATCTACACAGCTTGATGCAGCTCTTCCAATTAATGGCCAGTGTCTGGCTGAACTATTATAG

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FIGURE 1607

MEGRGYAKEGLKDLATRTPTPKKKLTSCEQPFGCENANDSDWLPRVTCEAQLAQDSGLSSILNSPSHTAKQAEH
RLRPRVLNPGCIKKMGQRELTGCRQNRDAFQGTGPSLGANPFQALPFTKKRELSPGLPPASPGSVTFPRIKQKK
PGSGQVGKRKRGLFGCDMWVEGHKGQVGNGSVRLREGAATLPDHSRGSSGEEIGSTFGHRAAPLSQTRTAIRLQG
HFATTGRKQGTLGNLHLLVWPLDNDQLVLEYETQLPGLSLIKLSGFLKTLSGQKSTHAALVELDIAKELIRKGAA
SHRQQQTHLHTGIHCGAAITAPSLSDTGHSEEKWLVDGQYVMTQAHEYKLRHDGSLRVPSTQLDAALPINGQCLA
ELL

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FIGURE 1608

GGGGCGCACAGAGCCAGAGGGGCTTGCGAGCGGCGGCTGAGGGACCGCGGGGAGGGGGCGCCGAGCGGCTCCAGC
GCAGAGACTCTCACTGCACGCCGAGGGGCGCCCTTCTCTGCTCGCGCCCGCGCGACCGCGCGCCCCAGTCCC GCC
CCGCCCCGCTAACCGCCCCAGACACAGCGCTCGCCGAGGGTTCGCTTGGACCCCTGATCTTACCCGTGGGCACCCTG
CGCTCTGCCTGCCGGAAGACCGGCTCCCCGACCCGCGAGAAGTCAGGAGAGAGGGGTGAAGCGGAGCAGCCCGAGG
CGGGGCAGCCTCCCGGAGCAGCGCCGCGCAGAGCCCGGGACAATGGGGCCGCGGCGGCTGCTGCTGGTGGCCGCC
TGCTTCAGTCTGTGCGGCCCCGCTGTTGTCTGCCCGCACCCGGGCCCCGAGGCCAGAATCAAAAGCAACAAATGCC
ACCTTAGATCCCCGGTCATTCTTCTCAGGAACCCCAATGATAAATATGAACCATTTTGGGAGGATGAGGAGAAA
AATGAAAGTGGGTAACTGAATACAGATTAGTCTCCATCAATAAAGCAGTCCTCTTCAAAAACAACCTTCCTGCA
TTCATCTCAGAAGATGCCCTCCGATATTTGACCAGCTCCTGGCTGACACTCTTTGTCCCATCTGTGTACACCGGA
GTGTTTGTAGTCAGCCTCCCACTAAACATCATGGCCATCGTTGTGTTCATCCTGAAAATGAAGGTCAAGAAGCCG
GCGGTGGTGTACATGCTGCACCTGGCCACGGCAGATGTGCTGTTTGTGTCTGTGCTCCCCCTTAAGATCAGCTAT
TACTTTTCCGGCAGTGATTGGCAGTTTGGGTCTGAATTGTGTGCTTCGTCACTGCAGCATTTTACTGTAACATG
TACGCTCTATCTTGTCTATGACAGTCATAAGCATTGACCGTTTTCTGGCTGTGGTGTATCCCATGCAGTCCCTC
TCCTGGCGTACTCTGGGAAGGGCTTCCTTCACCTTGCTGCGCATCTGGGCTTTGGCCATCGCAGGGGTAGTGCCT
CTGCTCCTCAAGGAGCAAACCATCCAGGTGCCCGGGCTCAACATCACTACCTGTCTATGATGTGCTCAATGAAACC
CTGCTCGAAGGCTACTATGCCTACTACTTCTCAGCCTTCTCTGCTGTCTTCTTTTTTGTGCCGCTGATCATTTCC
ACGGTCTGTTATGTGTCTATCATTGATGTCTTAGCTCTTCCGCAAGTTGCCAACCGCAGCAAGAAGTCCCGGGCT
TTGTTTCTGTGCTGCTGCTTTTTCTGCATCTTCATCATTTGCTTCGGACCCACAAACGTCTCTCTGATTGCGCAT
TACTCATTCCTTTCTCACACTTCCACCACAGAGGCTGCCTACTTTGCCTACCTCCTCTGTGTCTGTGTGTCAGCAGC
ATAAGCTGCTGCATCGACCCCTAATTTACTATTACGCTTCTCTGAGTGCCAGAGGTACGTCTACAGTATCTTA
TGCTGCAAAGAAAGTTCCGATCCCAGCAGTTATAACAGCAGTGGGCAGTTGATGGCAAGTAAAATGGATACCTGC
TCTAGTAACCTGAATAACAGCATATACAAAAGCTGTTAACTTAGGAAAAGGGACTGCTGGGAGGTTAAAAAGAA
AAGTTTATAAAAGTGAATAACCTGAGGATTCTATTAGTCCCCACCCAACTTTATTGATTACCTCCTAAAACAA
CAGATGTACGACTTGCATACCTGCTTTTTATGGGAGCTGTCAAGCATGTATTTTTGTCAATTACCAGAAAGATAA
CAGGACGAGATGACGGTGTTATTCCAAGGGAATATTGCCAATGCTACAGTAATAAATGAATGTCACCTTCTGGATA
TAGCTAGGTGACATATACATACTTACATGTGTGTATATGTAGATGTATGCACACACATATATTATTGTCAGTGCA
GTATAGAATAGGCACCTTTAAACACTCTTTCCCCGCACCCAGCAATTATGAAAATAATCTCTGATTCCCTGATT
TAATATGCAAAGTCTAGGTTGGTAGAGTTTAGCCCTGAACATTTTCATGGTGTTTCATCAACAGTGAGAGACTCCAT
AGTTTGGGCTTGTACCCTTTTGCATAAAGTGTATTTTGAATTGTTTGACGGCAAGGTTAAGTTATTAAGAG
GTAAGACTTAGTACTATCTGTGCGTAGAAGTTCTAGTGTTTTCAATTTTAAACATATCCAAGTTTGAATTCCTAA
AATTATGGAACAGATGAAAAGCCTCTGTTTTGATATGGGTAGTATTTTTTACATTTTACACACTGTACACATAA
GCCAAAAGTACGATAAGTCCCTCTAGTGAATGTAGGCTGGCTTTTACAGAGTAGGCTATTCTGAGAGCTGCATGTG
TCCGCCCCCGATGGAGGACTCCAGGCAGCAGACACATGCCAGGGCCATGTCAGACACAGATTGGCCAGAAACCTT
CCTGCTGAGCCTCACAGCAGTGAGACTGGGGCCACTACATTTGCTCCATCCTCCTGGGATTGGCTGTGAACTGAT
CATGTTTATGAGAACTGGCAAAGCAGAATGTGATATCCTAGGAGGTAATGACCATGAAAGACTTCTCTACCCAT
CTTAAAAACAACGAAAAGAAGGCATGGACTTCTGGATGCCCATCCACTGGGTGTAAACACATCTAGTAGTTGTTCT
GAAATGTGAGTTCTGATATGGAAGCACCCATTATGCGCTGTGGCCACTCCAATAGGTGCTGAGTGACAGAGTGG
AATAAGACAGAGACCTGCCCTCAAGAGCAAAGTAGATCATGCATAGAGTGTGATGTATGTGTAATAAATATGTTT
CACACAAACAAGGCCTGTCAGCTAAAGAAGTTTGAACATTTGGGTTACTATTTCTTGTGGTTATACTTAATGAA
AACAATGCAGTACAGGACATATATTTTTTAAATAAGTCTGATTTAATTGGGCACTATTTATTTACAAATGTTTT
GCTCAATAGATTGCTCAAAATCAGGTTTTCTTTTAAGAATCAATCATGTGAGTCTGCTTAGAAAATAACAGAAGAAA
ATAGAATTGACATTGAAATCTAGGAAAATTATCTATAATTTCCATTTACTTAAGACTTAATGAGACTTTAAAAAG
CATTTTTTAACTCCTAAGTATCAAGTATAGAAAATCTTCATGGAATTCACAAAGTAATTTGGAAAATTAGGTTGA
AACATATCTCTTATCTTACGAAAAAATGGTAGCATTTTAAACAAAATAGAAAGTTGCAAGGCAAAATGTTTATTTA
AAAGAGCAGGCCAGGCGCGGTGGCTCACGCCTGTAATCCAGCACTTTGGGAGGCTGAGGCGGGGTGGATCACGAG
GTCAGGAGATCGAGACCATCCTGGCTAACACGGTGAAACCCGTCTCTACTAAAAATGCAAAAAAATTAGCCGGG
CGTGGTGGCAGGCACCTGTAGTCCAGCTACTCGGGAGGCTGAGGCAGGAGACTGGCGTGAACCCAGGAGGCGGA
CCTTGATAGTGAGCCGAGATCGCGCCACTGTGCTCCAGCCTGGGCAACAGAGCAAGACTCCATCTC

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FIGURE 1609

GAAGAGGCGAGAACGACCCCCGGTCCGACCAAAGCCCGCGCGCGCTGCGTCCC GCGTCCAGCACCTATGTCCCG
CTGCCGTCGCTGCCGCCACCATGCCCAAGAGAAAGGCTGAAGGGGATGCTAAGGGAGATAAAGCCAAGGTGAAGG
ACGAACCACAGAGAAGATCCGCGAGGTTGTCTGCTAAACCTGCTCCTCCAAAGCCAGAGCCCACGCCTAAAAGGC
CCCTGCAAAGAAGGGAGAGAAGGTACCCAAAGGGAAAAAGGGAAAAGCTGATGCTGGCAAGGAGGGAAATAACCC
TGCAGGAAATGGAGATGCCAAAACAGACCAGGCGCAGAAAGCTGAAGGTGCTGGAGATGCCAAGTGAAGTGTGTG
CATTTTTGATAACTGTGTACTTCTGGTGACTGTACAGTTTGAAATACTATTTTTTATCAAGTTTATAAAAATGC
AGAATTTTGTTTTATTTTATTTTATTTTTTTTTAAAGCTATGTTGTTAGCACATAGAACACTTCATTGTTGTTTT
GGGGGAAGGGGCATATGTCGCTAATAGAATGTCTCCAAAGCTGGATTGATGTGGAGGATTCCCTGACTTTGACAC
ACATGGCCACCTTGGCACAAAAGCCTTGTGGTATAGAAAAACAAATT

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FIGURE 1610

GGCGAGAACGACCCCCGGTCCGACCAAAGCCCGCGCGCGCTGCGTCCCGCGTCCAGCACCTATGTCCCGCTGCC
GTCGCTGCCGCCACCATGCCCAAGAGAAAGGCTGAAGGGGATGCTAAGGGAGATAAAGCCAAGGTGAAGGACGAA
CCACAGAGAAGATCCGCGAGGTTGTCTGCTAAACCTGCTCCTCCAAAGCCAGAGCCCACGCCTAAAAGGCCCTG
CAAAGAAGGGAGAGAAGGTACCCAAAGGGAAAAAGGGAAAAGCTGATGCTGGCGAGGAGGGATTCCCTGACTTTG
ACACACATGGCCACCTTGGCACAAAAGCCTTGTGGTATAGAAAAACAAATTTGTTTTTATGTCCTCGTCTCCCTT
TCCCTCTTTTACGCATAGACTTAACTCCCTTAAGCCCAGACATCTGTTGGGACCTGACCCCTAGTCATTGGTTACC
AGTGTGTTAGGCAATCTGGACTTTCCAGTGATGCCACTGAGATGGCACCTGTCAAAAGAGCAGTGGTTCTGTTTC
TAGATTATGGATCTTCAGATAAATTCTGCCATTTTCATTTAACTTCCTGAAAAGTCAGGGTCGGCTTGTGAAAAGT
TGTTAAACAACATGCTAAATGTGAAATGTCAACCCTCACTCTAAACTTTCCCTGTTTCAGAGCATCAGATGAAGAC
TTCATTGGGTTTTATAGTGGCTTTCTGATTTTTGGTAGTCCATTGAAGAAGGGAGTTTGAAAGTTGTTGTATACT
GTTAACGATTGTCTGCCCATGTCCTGCCTGAAATACCA

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FIGURE 1611

GGGAGATAAAGCCAAGGTGAAGGACGAACCACAGAGAAGATCCGCGAGGTTGTCTGCTAAACCTGCTCCTCCAAA
GCCAGAGCCCACGCCTAAAAGGCCCCTGCAAAGAAGGGAGAGAAGGTACCCAAAGGGAAAAAGGGAAAAAGCTGAT
GCTGGCAAGGAGGGAAATAACCCTGCAGGAAATGGAGATGCCAAAACAGACCAGGCGCAGAAAGCTGAAGGTGCT
GGAGATGCCAAGTGAAGTGTGTGCATTTTTGATAACTGTGTACTTCTGGTGA CTGTACAGTTTGAAATACTATTT
TTTATCAAGTTTTATAAAAATGCAGAAATTTGTTTTATTTTATTTTATTTTTTTTAAAGCTATGTTGTTAGCACA
TAGAACA CTTCATTGTTGTTTTTGGGGGAAGGGGCATATGTCGCTAATAGAATGTCTCCAAAGCTGGATTGATGT
GGAGAAAACACCTTTCCCTTCTAGTTTTGAGAGACTTCCTCTTGGCTTCCAGGAGGAGGGATTCCCTGACTTTGA
CACACATGGCCACCTTGGCACAAAAGCCTTGTGGTATAGAAAAACTCCCTTAAGCCCAGACATCTGTTGGGACC
TGACCCCTAGTCATTGGTTACCAGTGTGTTAGGCAATCTGGACTTTCAGTGATGCCACTGAGATGGCACCT

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FIGURE 1612

AAACCTCGCCCAGATTCAGGCGTGTAACCAGCCGGAGCGGCGCGGCAGCGGCAGGACCGCCGTGGCGCCTAGAG
TAGCGACCCGCGGGGAGCACGGGGCGACGCTGGCTGCAGAGACCCGGTGACAGCTGTATGCTTGAAATCTTGGAT
ACTGCAGGAACGGAGCAATTTACAGCAATGAGGGATTTATACATGAAAAATGGACAAGGGTTGCATTAGTTTAT
TCCATCACAGCACAGTCCACATTTAACGATTTACAAGACCTGAGAGAACAGATTCTTCGAGTTAAAGACACTGAT
GATGTTCCAATGATTCTTGTGTTGTAATAAGTGTGACTTGGAAGATGAAAGAGTTGTAGGGAAGGAACAAGGTCAA
AATCTAGCAAGACAATGGAACAACCTGTGCATTCTTAGAATCTTCTGCAAAATCAAAAATAAATGTTAATGAGATC
TTTTATGACCTAGTGCGGCAAATTAACAGAAAACTCCAGTGCCTGGGAAGGCTCGCAAAAAGTCATCATGTCAG
CTGCTTTAATATACTAAATGCATTGTAGCTCTGAGCCAGGTCTGAAGAACTGTTGCCCAATTCAACAGTGCCAGC
ATTCCAACCTTTGTTAAACCTACCAACATCTTAAATGGACTTTCTGTGGTGGTACCCTTTAAGAGGCGGATGAAA
GCTACTATATCAGTTTGCACATTCTAATCACTTTCCAGTATCACAAAGAGAGATTTTTACTTATATAATAGTCCTA
GAGTATGCAGCTGGTAAAACCAGAGGCTACATCCAGTATTACTGCTAAGAGACATTCTTCATCCACCAATGTTGT
ACATGTATGAAAATGGTGTACTGTATACTTTAACATGCCCCATACTTTGTATTGGAGAGTACAATAATGTAAATC
CTAAAAGCACCACTATTTTAGCATAATAAAAGAAAGTCCAAAGAGCTCCTATATAGACTACTCCAGATAACTTCG
CTTCTTTGATACTTGTAGCTTATTGTAATTTTTTTTTAAGAAATTCAAGGTCATTATTATTGTACAAAATAAGCGC
TTTGATTAAACACAGCTATATAGTTTTTTTTAATTTTTTAATGTCTTAGATTAAAGACGTTGCCCTTTAATATCTGTTG
GGAAGGAAATGTCCAGACTTTTCAAATCTCTTATTATATGTTTCCTTTTTTTTGTTTACATAGGGAACAATGTTTA
TAGTCGTGTGTACAGTGGGGGTCTACAACAAGAAGTGTATATT

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FIGURE 1613

MREYKLVVLGSRGVGKSALTQFVQGIFVEKYDPTIEDSYREQVEVDAQQCMLEILD¹TAGTEQFTAMRDLYMKNG
QGFALVYSITAQSTFNDLQDLREQILRVKDTDDIFYDLVRQINRKTPVPGKARKKSSCQLL

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FIGURE 1614

TTGGAGCAGGCCTGCTGCCTTCATGTCCACTCTCCTCATCAATCAGCCCCAGTATGCATGGCTGAAAGAGGTGGG
GCTCCGAGAGGAAAATGAGGGCGTGTATAATGGAAGCTGGGGAGGCCGGGGAGAGGTTATTATGACCTGTTGCTC
TGCTAACAACTAGCCAATAGCAAGAGTCCGACAGGCCAGTGTGGCAGACTATGAAGAACTGTAAAGAAAGCAAC
AGAAGCATGGAAAATCTGGGCAGATATTCCTGCTCCAAAACGAGGAGAAATAGTAAGACAGATTGACGATGCCTT
GTGGGAGAAGATCCAAGTACTAGGAAGCTTGGTGTCTTTGGAGATGGGGAAAATCTTAGTGGAAGGTGTGGGTGA
AGTTCAGGAGTATGTGGATATCTGTGACTATGCTGTTGGTTTATCAAGGATGATTGGAGGACCTATCTTGCCTTC
TGAAAGACCTGGCCATGCACTGATTGAGCAGTGGAATCCTGTAGGCCTGGTTGGAATCATCACGGCATTCAATTT
CCCTGTGGCAGTGTATGGTTGGAACAACGCCATTGTCATGATCTGTGGAAATGTCTGCCTCTGGAAAGGAGCTCC
AACCACCTCCCTCATTAGTGTGGCTGTCAAAAGATAATAGCCAAGGTTCTGGAGGACAACAAGCTGCTTGGTGC
AATTTGTTTCCTTGACTTGTGGTGGAGCAGATACCGGCACAGCAATGGCCAAAGATGAACGAGTGAACCTGCTGTC
CTTCACCGGGAGCACTCAGGTGGGAAAACAGATGGCCCTGATGGTGCAGGAGAGGTTTGGGAGAAGTTTGTGGGA
ACTTGGAGGAAACAGTACCATTATTGCCTTTGAAGATGCAGACCTCAGCTTAGTTGTTCCATCAGCTCTCTTCAC
TGCTGTGGGAATAGCTGGCCAGAGGTGTACCACTGCGAGGCGACTGTTTGTACATGAAAGCATCCATCATGAGGT
TGTAACAGACTTAAAAAGGCCTACGCACAGATCCGAGTTGGGAACCCATGGGACCCTAATGTTCTCTATGGGCC
ACTCCACACCAAGCAGGCAGTGAGCATGTTTCTTGGAGCAGCGGAAGAAGCAAAGAAAGAAGGTAGCACAGTGGT
CTATGGGGGCAAGGTTATGGATCGCCCTGGAAATTATGTAGAACCGACAATTGTGACAGGTCTTGCCACGATGC
ATCCATTGCACACACAGAGACTTTTGCTCCGATTCTGTATGTCTTTAAATTCAAGAATGAAGAAGAGGTCTTTGC
ATGGAATACTGAAGTAAACAGAGACTTTCAAGTAGCAACTTTACCAAAGATCTGGGCAGAATCTTTTCGCTGGCT
TGGACCTAAAGGATCAGACTGTGGCACTGTAAATGTCAACATTCCAACAAGTGGGGCTGAGATTGGAGGTGCCTT
TGGAGGAGAAAAGCACACTGGTGGTGGCAGGGAATCTGGCAGTGATGCCTGGAAACAGTACATGAGAAGGTCTAC
TTGTACTATCAACTACAGTAAAGACTTTTCTTGGCCCCAAGGAATCAAGTTTCAGTAAAGGTGTTTTAGATGAAC
ATCCCTTAATTTGAGGTGTTTCGGCAGCTGTTTTTGAAGAAGACAAAGAAAATTAAAGTTTTCTTGAATAAATGC
ATTATTATGACTGTGACAGTGACTAATCCCCCTATGACCCCAAAGCCCTGATTAAATCAAAGACTCCTTTTTTA
AAAATCAAATAAAATTGTTACAACAT

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FIGURE 1615

CCTCTTTTTCCGGCTGGAACCAATGGAGGGTGTAGAAGAGAAGAAGAAGGAGGTTCTGCTGTGCCAGAAACCCCTT
AAGAAAAAGCGAAGGAATTTTCGTAGAGCTGAAGATCAAGCGCCTGAGAAAGAAGTTTGCCAAAAGATGCTTCGA
AAGGCAAGGAGGAAGCTTATCTATGAAAAAGCAAAGCACTATCACAAGGAATATAGGCAAATGTACAGAACTGAA
ATTCGAGTGGCGAGGATGGCAAGAAAAGCTGGCAACTTCTATGTACCTGCAGAACCCAAATTGGCGTTTGTCATC
AGAATCAGAGGTATCAGTGCTGTGAGCCCAAAGGTCCGAAAGGTGTTGCAGCTTCTTCGCCTTCGTCAAATCTTC
AATGGAACCTTTGTGAAGCTCAACAAGGCTTCGATTAACATGCTGAGGATTGTAGAGCCATATATAGCATGGGGG
TACCCCAATCTGAAGTCAGTAAATGAACTAATCTACAAGCGTGGTTATGGCAAATCAATAAGAAGCGAATTGCT
TTGACAGATAACGCTTTGATTGCTCGATCTCTTGGTAAATACGGCATTATCTGCATGGAGGATTTGATTCATGAG
ATCTATACTGTTGGAAAACGCTTCAAAGAGGCAAATAACTTCCTGTGGCCCTTCAAATTGTCTTCTCCACGAGGT
GGAATGAAGAAAAAGACCACCCATTTTGTAGAAGGTAGAGATGCTGGCAACAGGGAGGACCAGATCAACAGGCTT
ACTAGAAGAATGAACTAAGGTGTCTACCATGATTATTTTCTAAGCTGGTTGGTTAATAAACAGTACCTGCTCTC
AAATTGA

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FIGURE 1616

MEGVEEKKKEVPAVPETLKKKRRNFVELKIKRLRKKFAQKMLRKARRKLIYEKAKHYHKEYRQMYRTEIRVARMA
RKAGNFYVPAEPKLAFFVIRIRGISAVSPKVRKVLQLLRLRQIFNGTFVKLNKASINMLRIVEPYIAWGYPNLKSV
NELIYKRGYKINKKRIALTDNALIARSLGKYGIICMEDLIHEIYTVGKRKFKEANNFLWPFKLSSPRGGMKKKTT
HFVEGRDAGNREDQINRLTRMN

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FIGURE 1617

GCACCATGGCGGTTGGCAAGAACAAGCACCTTACGAAAGGCAGCAAAAAGGGGGCCAAGAAGAAAGTGGTTGATC
CATTTTCTAAGAAAGATTGGTATGATGTGAAAGCACCTGCTATGTTCAATATAAGAAATATTGGAAAGATGCTCA
TCACCAGGACCCAAGGAACCAAAATTGCATCTGATGGTCTCAAGGGTCGTGTGTTGAAGTGAGTCTTGCTGATT
TGCAGAATGATGAAGTTGCACTTAGAAAATTCAAGCTGATTACTGAAGATGTTCAAGGTAAAACTGCCTAACTT
CCATGGCATGGATCTTACCTGTGACAAAATGTGTTCCATGGTCAAAAAATGGCAGACAATGATTGAAGCTCACGT
TGACGTCAGGACTATTGATGGTTACTTGCTTCGTCTGTTCTGTGTTGGTTTTACTAAAAAACGCAACAATCAGAT
ACAGAAGACCTCTTATGCCAGCACCAACGGGTCCGCCAAATCCGGAAGAAGATGATGGAAATCATGACCCGAGA
GGATTCCAGACAGCATTGGAAAAGACATAGAAAAGGCTTGCCAATCTATCCTCTCCATGATGTCTTCGTTAGAAA
AGTAAAAATGCTGAAGAAGCCCAAGTTTGAATTGGGAAAGCTCATGGAGCTTCATGGTGAAGGCAGTAGTTCTGG
AAAAGCCACTGGGGACGAGAGAGGTGCTAAAGTTGAACGAGCTGATGGTTTTGAACCACCAGTCCAAGAATCTGT
TTAAAGTTCAGACTTCAAATAGTGGCAAATAAAAAAGTGCTATTTGTGA

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FIGURE 1618

MDLTCDKMCSMVKKWQTMIEAHVDVRTIDGYLLRLFCVGFTKKRNNQIQKTSYAQHQRVRQIRKKMMEIMTRED
RQHWKRHRKGLPIYPLHDVFRKVKMLKKPKFELGKLMELHGEHSSSGKATGDERGAKVERADGFEPPVQESV

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FIGURE 1619

TTTCTGCCCATGGACACCGCCGAAGAAGCATTGTTAAAGTCTCTCTTCACCCTGCCGTCATGTCTAAGTCAGAGT
CTCCTGAAGAGCCCCGAACAGCTGAGGAAGCTCTTCATTGGAGGGCTGAGCTTTGAAACAACTGATGAGAGCCTTG
AGGAGCCATTTTGAGCAATGGGGAATGCTCACGGACTGTGTGGTCATGAGAGATCCAAACACCAAGCACCCCAGG
GGCTTTGGGTTTGTACATATGCTACTGTGGAGGAGGTGGATGCAGCCATGAATGCAAGGCCACACAAGGTGGAT
GGAAGAGTTGTGGAACCAAAGAGAGCTGTCTCGAGAGAAGATTCTGAAAGACCAGGTGCCCACTTAACTGTGAAA
AAGATATTTGTTGGTGGCATTAAAGAAGACACTGAAGAACATCACCTAAGAGATGATTTTGAACAGTATGGAAAA
ATTGAAGTGATTGAAATCATGACTGACCGAGGCAGTGCGAAGAAAAGGGGCTTTGCCTTTGTAAATTTTGACGAC
CATGACTCCATGGATAAGATTGTCATTTCAGAAATACCATACTGTGAATGGCCACAACGTGAAGTTAGGAAAGCC
CCGTCACAGCAAGAGATGGATAGTGCTTCATCCAGCCAAAGAGGTCGAAGTGTTCTGGAACTTTGGTGGTGGT
CGTGAGGTGGTTTTCGGTGGGAATGACAACTTTGGTCATGGAGGAACTTCAGTGTTGTGGTGGCTTTGGTGGC
AGTCATGGTGGTGGTATGGTGGCAGTGGGGATGGCTATAATGGATTGGTAATGATGGAAGCGATTTTGGG
GGTGGTGGAAAGCTACAATGATTTTGGCAATTACAACAATCAGTCTTCAAATTTTGGACCCATGAAGGGAGGAAAT
TTTGGAGGCAGAAGCTCTGGCCCTTATGGTGGTGGAGGCCAATACTTTGCAAAACCACAAAACCAAGGTGGCTAT
GGCGGTTCCAGTAGCAGCGGTAGCTATGGCAGTGGCAGAAGATTTTAATTAGGAAACAAAGCTTAGCAGGAGCGG
AGAGCCAGAGAAGTGACAGGGAAGCTACAGGTTACAACAGATTTGTGAACTCAGCCAAGCACAGTGGTGGCAGGG
CCTAGCTGCTACAAAGAAGACATGTTTTAGACAAATACTCATGTGTATGGGCAAAAACTCGAGGACTGTATTTG
TGACTAATTGTATAACAGGTTATTTTAGTTTCTGTTCTGTGGAAAGTGTAAGCATTCCAACAAAGGGTTTTAAT
GTAGATTTTTTTTTTGCACCTATGCTGTTGATTGCTAATGTAATAGTCTGATCGTGATGCTGAATAAATGTCTTT
TCTTTTTAATGTGCTGTGTAAAGTTAGTCTACTCTGAAGCCATCTTGGTAAATTTCCCCAACAGTGTGAAGTTAG
AATTCCTTCAGGGTGATGCCAGGTTCTATTTGGAATTTATATACAACCTGCTTGGAGGGAGAAGCCATTGTCTTC
AGAAACCTTGGTGTAGTIGAAGTGATAGTTACCGTTGTGACCTGAAGTTCACCATTAAAAGGGATTACCCAAGCA
AAATCATGGAATTATTGGTTATAAAAGTGATTGTTGGCACATCCTATGCAATATATCTAAATTGAATAATGGTAC
TAGATAAAATTATAGATGGGAATGAAGCTTGTGTATCATCCATTATCATGTGTAATCAATAAATGATTTAATTCT
CTTGAA

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FIGURE 1620

MRALRSHFEQWGMLTDCVVMRDPNTKHPRGFGFVTYATVEEVDAAMNARPHKVDGRVVEPKRAVSREDSERPGAH
LTVKKIFVGGIKEDTEEHLRDDFEQYGKIEVIEIMTDRGSGKKRGFAFVNFDDHDSMDKIVIQKYHTVNGHNCE
VRKAPSQQEMDSASSSQGRSGSGNFGGGRGGGFGGNDNFGHGNGNFSGCGGFGGSHGGGGYGGSGDGYNGFGNDG
SDFGGGGSYNDFGNYNQSSNFGPMKGGNFGGRSSGPYGGGGQYFAKPQNQGGYGGSSSSGSYGSRRF

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FIGURE 1621

CCGCCGAAGAAGCATTGTTAAAGTCTCTCTTCACCCCTGCCGTCATGTCTAAGTCAGAGTCTCCTGAAGAGCCCGA
ACAGCTGAGGAAGCTCTTCATTGGAGGGCTGAGCTTTGAAACAACCTGATGAGAGCCTTGAGGAGCCATTTTGAGC
AATGGGGAATGCTCACGGACTGTGTGATTCTGAAAGACCAGGTGCCCACTTAAGTGTGAAAAAGATATTTGTTGG
TGGCATTAAAGAAGACACTGAAGAACATCACCTAAGAGATGATTTTGAACAGTATGGAAAAATTGAAGTGATTGA
AATCATGACTGACCGAGGCAGTGGCAAGAAAAGGGGCTTTGCCTTTGTAAATTTTGACGACCATGACTCCATGGA
TAAGATTGTCATTTCAGAAATACCATACTGTGAATGGCCACAACCTGTGAAGTTAGGAAAGCCCCGTCACAGCAAGA
GATGGATAGTGCTTCATCCAGCCAAAGAGGTCGAAGTGGTTCTGGAACTTTGGTGGTGGTCGTGGAGGTGGTTT
CGGTGGGAATGACAACCTTTGGTTCATGGAGGAACTTCAGTGGTTGTGGTGGCTTTGGTGGCAGTCATGGTGGTGG
TGGATAAGGTGGCAGTGGGGATGGCTATAATGGATTTGGTAATGATGGAAGCGATTTTGGAGGTGGTGGGAAGCTA
CAATGATTTTGGCAATTACAACAATCAGTCTTCAAATTTTGGACCCATGAAGGGAGGAAATTTTGGAGGCAGAAG
CTCTGGCCCTTATGGTGGTGGAGGCCAATACTTTGCAAAGCAGAAGATTTTAATTAGG

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FIGURE 1622

AAGTCTCTCTTCACCCTGCCGTCATGTCTAAGTCAGAGTCTCCTGAAGAGCCCGAACAGCTGAGGAAGCTCTTCA
TTGGAGGGCTGAGCTTTGAAACAAGTATGAGAGCCTTGAGGAGCCATTTTGAGCAATGGGGAATGCTCACGGAC
TGTGTGGTCATGAGAGATCCAAACACCAAGCACCCAGGGGCTTTGGGTTTGTACATATGCTACTGTGGAGGAG
GTGGATGCAGCCATGAATGCAAGGCCACACAAGGTGGATGGAAGAGTTGTGGAACCAAAGAGAGCTGTCTCGAGA
GAAGATTCTGAAAGACCAGGTGCCCACTTAAGTGTGAAAAAGATATTTGTTGGTGGCATTAAAGAAGACACTGAA
GAACATCACCTAAGAGATGATTTTGAACAGTATGGAAAAATTGAAGTGATTGAAATCATGACTGACCGAGGCAGT
GGCAAGAAAAGGGGCTTTGCCCTTTGTAAATTTTGACGACCATGACTCCATGGATAAGATTGTCATTCAGAAATAC
CATACTGTGAATGGCCACAAGTGTGAAGTTAGGAAAGCCCCGTCACAGCAAGAGATGGATAGTGCTTCATCCAGC
CAAAGAGGTCGAAGTGGTTCTGGAACTTTGGTGGTGGTCGTGGAGGTGGTTTCGGTGGGAATGACAACTTTGGT
CATGGAGGAACTTCAGTGGTTGTGGTGGCTTTGGTGGCAGCTATAATGGATTTGGTAATGATGGAAGCGATTTT
GGAGGTGGTGGAGCTACAATGATTTTGGCAATTACAACAATCAGTCTTCAAATTTTGGACCCATGAAGGGAGGA
AATTTTGGAGGCAGAAGCTCTGGCCCTTATGGTGGTGGAGGCCAATACTTTGCAAAACCACAAAACCAAGGTGGC
TATG

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FIGURE 1623

ACCCTGCCGTCATGTCTAAGTCAGAGTCTCCTGAAGAGCCCGAACAGCTGAGGAAGCTCTTCATTGGAGGGCTGA
GCTTTGAAACAACCTGATGAGAGCCTTGAGGAGCCATTTTGAGCAATGGGGAATGCTCACGGACTGTGTGGTCATG
AGAGATCCAAACACCAAGCACCCCAGGGGCTTTGGGTTTGTACATATGCTACTGTGGAGGAGGTGGATGCAGCC
ATGAATGCAAGGCCACACAAGGTGGATGGAAGAGTTGTGGAACCAAAGAGAGCTGTCTCGAGAGAAGATTCTGAA
AGACCAGGTGCCCCACTTAACTGTGAAAAAGATATTTGTTGGTGGCATTAAAGAAGACACTGAAGAACATCACCTA
AGAGATGATTTTGAACAGTATGGAAAAATTGAAGTGATTGAAATCATGACTGACCGAGGCAGTGGCAAGAAAAGG
GGCTTTGCCCTTTGTAAATTTTGACGACCATGACTCCGTGGTGGCTTTGGTGGCAGTCATGGTGGTGGTGGATATG
GTGGCAGTGGGGATGGCTATAATGGATTTGGTAATGATGGAAGCGATTTTGGAGGTGGTGGGAAGCTACAATGATT
TTGGCAATTACAACAATCAGTCTTCAAATTTTGGACCCATGAAGG

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FIGURE 1624

CAAAGGCTACTAAGTTAATGGTATTTTCTGCACAGAAAATACCATTAACCTTAGTAGCCTTTGCTTAAAGGTGGGA
TTAATTCTCCATGAAGTCAGAATGAGACAATAAGCAGCATTAACCTTCATAGGCACACAGAACTAGTGCTCAAAC
GCTACCACCCCTTTTCAATTGCTATCTTTTGAAAGGCACCACTATTTGTTTTGCTGGGGTCTCGGGTGGACCCTTA
TTCGCTCCGACAAGATGAAAGAAACAATCATGAACCAGGAAAACTCGCCAACTGCAGGCACAAGTGCGCATTG
GTGGGAAAGGAAGTCTCGCAGAAAGAAGAAGGTGGTTCATAGAACAGCCACAGCAGATGACAAAAAAGTTTCAAGT
TCTCCTTAAAGAAGTTAGGGGTAAACAATATCTCTGGTATTGAAGAGGTGAATATGTTTACAAACCAAGGAACAG
TGATCCACTTTAACAACCCTAAAGTTCAGGCATCTCTGGCAGCGAACACTTTCACCATTACAGGCCATGCTGAGA
CGAAGCAGCTGACAGAAATGCTACCCAGCATCTTAAACCAGCTTGGTGCGGATAGTCTGACTAGTTTAAAGGAGAC
TGGCCGAAGCTCTGCCCAAACAATCTGTGGATGGAAAAAGCACCCTTGCTACTGGAGAGGATGATGATGATGAAG
TTCCAGATCTTGTGGAGAATTTTGATGAGGCTTCCAAGAATGAGGCAAACTGAATTGAGTCAACTTCTGAAGATA
AAACCTGAAGAAGTTACTGGGAGCTGCTATTTTATATTATGACTGCTTTTTAAGAAATTCTTGTTTATGGATCTG
ATAAAATCTAGATCTCTAATATTTTTAAGCCCAAGCCCCCTTGACACTGCAGCTCTTTTCAGTTTTTGCTTATAC
ACAATTCATTCTTTGCAGCTAATTAAGCCGAAGAAGCCTTAAGTGGGAATTC

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FIGURE 1625

MKETIMNQEKLAKLQAQVRIGGKGTARRKKKVVRTATADDDKKLQFSLKKLGVNNISGIEEVNMFTNQGTVIHFN
NPKVQASLAANTFTITGHAETKQLTEMLPSILNQLGADSLTSLRRLAEALPKQSVDGKAPLATGEDDDDEVDPDLV
ENFDEASKNEAN

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FIGURE 1626A

GCGGTGGCGCTGCGGAGACCCGGTCCAGACGCCTGGCGGGCCGCCGGCACACAAGGCGCTTTCTAGCTCCCTCCCC
CGAGCGCACAGCCCGCCTCCTTCCGCGGCGCCTGCAGTGGCAGGCTTGCTCTGCCCTACCGTGACGCGCTCCGGA
GACGCTCTGCGGGTCTTGACACCGGGTCCGCGGCGTGGGGACGACAGACGGAGGCGAACGCCATCGGTAGCCGG
TCCGCGAGCCATCGTTCCGGGCGCAGTCCCTCTCCCCGGCTGGCCCTCCTTTCTCCGGGGCATTGCCACCGCTTC
CCTGGGCTGAGACGACCGGTTTCGTCGCCTCCTTGCCCGTGACCGTCGCTAGAACTCAGTTGTGCGTTGCGGCCAG
TCGCCACTGCTGAGTGGAACAAAATGTCAGTCAGTGTGCATGAGAACCACAAGTCCAGGGCCAGCAGCGGCTCC
ATTAACATCTATCTGTTTACAAAGTCTCCTACGCTGACAGCGTCCCTCACTCACCTGAATCTTTTACGCCAGCAG
CGTCTCTTCACTGACGTCCTTCTCCATGCCGGAATAGGACCTTCCCTTGCCACCGGGCAGTGTGGCTGCATGC
AGTCGCTACTTTGAGGCCATGTTTCAAGTGGTGGCCTGAAAGAGAGCCAGGACAGTGAGGTCAACTTTGACAATTCC
ATCCACCCAGAAGTCTTGAGGCTGCTGCTTGACTATGCGTACTCCTCCCGGGTCATCATCAATGAAGAAAATGCA
GAATCGCTCCTGGAAGCTGGTGACATGCTGGAGTTTCAAGACATCCGGGATGCATGTGCAGAGTTCTTGAAAAAG
AACCTGCATCCCACCAACTGCCTGGGCATGCTGCTGCTGTGATGCACACCAAGTGCACCAAGCTGTACGAACTA
TCTTGAGAAATGTGCTCAGCAACTTCCAAACCATCAGGAAGAATGAAGATTCTCTCCAGCTGCCCCAGGACATG
GTAGTGCAACTCTTGTCAGTGAAGAGCTGGAGACAGAGGATGAAAGGCTTGTTGTACGAGTCTGCAATTAAGTGG
ATCAGCTATGACCTGAAGAAGCGCTATTGCTACCTCCAGAACTGTTGCAGACAGTAAGGCTGGCACTTCTGCCA
GCCATCTATCTCATGGAGAATGTGGCCATGGAGGAAGTATCACCAAGCAGAGAAAGAGTAAGGAAATTGTGGAA
GAGGCCATCAGGTGCAAACTGAAAATCCTGCAGAATGACGGTGTGGTAACCAAGCCTCTGTGCCCGACCTCGGAAA
ACTGGCCATGCCCTCTTCTTCTGGGAGGACAGACTTTTATGTGTGACAAGTTGTATCTGGTAGACCAGAAGGCC
AAAGAAATCATTCCCAAGGCTGACATTTCCAGCCCAAGAAAAGAGTTTAGTGCATGTGCGATTGGCTGCAAGTG
TACATTACTGGGGGGCGGGGTCTGAAAATGGGGTCTCAAAAGATGTCTGGGTTTATGATACCCTGCACGAGGAG
TGGTCCAAGGCTGCCCCATGCTGGTGGCCAGGTTTGGCCATGGCTCTGCTGAACTGAAGCACTGCCTGTATGTG
GTTGGGGGGCACACGGCCGCAACTGGCTGCCTCCCGGCTCCCCCTCAGTCTCTCTAAAGCAGGTAGAACATTAT
GACCCCAACAATCAACAAATGGACCATGGTGGCCCACTCCGAGAAGGCGTTAGCAACGCCGCAGTAGTGAGTGCC
AACTTAAGTTATTTGCTTTCCGAGGTACAGTGTGAGTCATGACAAGCTCCCCAAAGTTCAGTGTTACGATCAG
TGTGAAAACAGGTGGACTGTACCGGCCACCTGTCCCCAGCCCTGGCGTTACACAGCAGCAGCTGTGCTGGGGAAC
CAGATTTTTATTATGGGGGGTGATACAGAATTCTCTGCCTGCTCTGCTTATAAATTCAACAGTGAGACTTACCAG
TGGACCAAGGTGGGAGATGTGACAGCAAAGCGCATGAGCTGCCATGCTGTGGCCTCTGGAAACAACTCTACGTG
GTTGGAGGATACTTTGGCATTTCAGCGATGCAAGACTTTGGACTGCTACGATCCAACATTAGACGTGTGGAACAGC
ATCACCACTGTCCCGTACTCGCTGATTCTTCTACTGCATTTGTGAGCAGCTGGAAACATCTGCCTTCTTAAATGCAG
TACATTCTAAAGAGAGTGAGCATGAGCTCACTCCATCACTCGATGAGATAAATATGAGATTTCTACTTCGGAGAGG
CCAAGTCTAATGAAGAGAAAAAAGGAAAAGAAGTTGCAAGACTCGAATAAAATCTGCTGCACCTTGTAATGCT
CTAACTGGACATGAAGGAAAGGGGCGAGGGAGGGGGTGGGATTTTTTGGTGCAAGTAGCACATGGTTTAAATATG
AATGAACAAACCTGTGATCTAGTCCTTGTCTTGTAATTGTGGATTAATGTCAATGTTAATCAGCCCTCAAAGGG
AGAGAAAAGCTGGACCTTTTCCCTTGCTGTACCATATTGAGCATTGATTTCATGGGCCCCACCATTATGTGT
AGAATTTGAAATGGTTGTCACCTCTCTCTGAGGACAGAGCTTGAAGCCTCCACACCAGCTGCTGCTGGAGATTCA
AAGCCCAACTGTGGGTCCGAGAGGGAAGCTGGCTGGGCTGGCTGAAGAATGAAGACCACTGGACTCTCCGTTAAT
CTCTAAGGGGTCTGCTCCCCAGGAACGTTTCTGAACAATGGGGACTTTGTTGGTAGCCATTGGTAGATGTTCTT
TTCTATTTATAAGTGACTTTAAACTTTCCCTTGCTGTTAAGAAGTTTGTATAGATTAGCTATTTATTGTTCCG
ATGCCTGCATGCTGAAACAATGCCTACAGCTGTCTTCACATGTATGGACGTGTGTGAATGGTTGTACGTTTTGCA
CATTTTGTGGCTGTTGAGATGTGCTTTGCTGCACAAACATGAAAATTTTTGAGTTACAATTTGGAGCATAACTGG
AGGGTGGGTTGGGGAGGGGTGGATTTTTTAAATGTCAAGACAGGGAAGGATGACAAAATGGAAATTTAAATGACA
TCCTAGAGGTAGAGAAACCGTGAGATCGTTTTCTCAGACTACCAACTTTTAAATGGGATTTTATGGGGTTTGG
TTGTGCTGATAGGGTAAGGGGAGGCTGCTTTCTGCCCTTCTCCCCACTCCCATCTGATTTACTTAATTCAGTCTC
AGCTGCTGAAATTTGGAAGGACCAAAATGCTTTACAGTTTTTTCTTTGTGTAGTATCTTGAAATCCTGGAAAA
TTCTATGGAATAGTTCTGTATATAGGGCACAAGTAAAGGCATTGTCCAAAGTTTATTTATTTATTATTACCCTA
AGAATGCTTTGCCATAACCACATTTAATGGGAAAAACGGCAGTATCACAGATGTAAATTAACCTACCAGATTTAC
TGGGCCTGAACTCATTCTCTTCTGCTATATGATTTAGCAAGTTCTAGAAGGTCTCCAAGACAATAATTACATTG
GCACAATGTATACTTCAGTGCTCACCCGTAGGCAAATCTCTTTTTTAAAAAATCTTTGGTGCACAAGTAACACAT

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FIGURE 1626B

TTGGCCACAAAACACCAAAGAATTGTAGGCAGTGGCCCCTATTGAGAAGTTTTCCGGTAGAGTTGGAAATCAGTT
GTGAATACATTCTTTGCTAGTTGGAGTGCTTGTTTACTAAGCATGTGCCGTCGTAGGTATTAGTGCTAGTCTCAG
ATAGGTGCTTCCCCTGAGGTGCAGGGGAAGACCAAAGTTTGCAACTCGAACTGCTTTCGTCCATGTTTCTCACAT
TGCTGTATTTTAGAAAAATAGGGGTTAAGACTGATAACAACCTTTTACATTGTGACTGTGTTTGCAATTGTCTAATG
ACAGATAAATCCTTAACATTTCTCTCCACCTTAGTACTTTAGACTAATTGTGTTTGTCCGTCCATGCCATGAATG
AGTGGGCTGTAGTTGGGCCTAAATAAATGAGCTGTTGGAAGAAAAGAATCACAGTACTTTCCAGCAGTCAGTCCC
TGGTTCCTAGATGTGTTCTAAGCAATGCAAATGTCTAATTGTCCCCCAGTGGGCATAGTCAGTGTCTGTTTATATT
GTAGCAGTTACAGCTCTGTAGTTTATGATGCAAATCTGCCAAGAGAGATGTATGTGTCACTGCATGGCTTCTGAA
AGCAGGATGAATTTTCTGCAGCTGTTTCAAAGTTGGGGTCTGTTCTTGAATCCTCTATTAATTACTGTGTGTGAG
CCAGAGGGGAGCTGTGGTAAGGGTTGGGCCCCCAGCCTGTAGGGAACTTTCTGGACTCCCACTCTTTGAATCGATA
TAGGCATTTGGTCTCACTACTTGACCATTCTCACCTGTGAAACGTCCCACACTTTGAAGCAAATACAATTCACA
GCACAGTACACACAAAAACCTTGGCATAAGACAGAGAAGGTTCTTCTTATTTTGTGGGCTGGTTGCTGTAGAAAC
ACATAACAAAGGGCAGCCCTCCACTTCTGGTATAATTGTGTAGCCCCCTTTCTTTGGGCTTGACACCTGTCTTGA
ATAAGAGTGATTAGAGCTGCATAATGTCCCTCTCTTGGCTATTGACCATGTGGTTCACGTACAAAACCTCTGTATA
AGTTGAAGGAAAATGTTTCATGTTTCATATGTACTTGTTTGCTATGACTACATTTTGAGGTTTTGTAAAACCTGTTAT
TTTTTTTTTTTTTTCACAAATGTGAAACTGAAGGTCAATAAATTATTAGAGATTTTCTCTTC

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FIGURE 1627

CTGATCCGGGCGGGCGGGGAAGTCGGGTCCCGAGGCTCCGGCTCGGCAGACCGGGCGGAAAGCAGCCGAGCGGCC
ATGGAGCTGTGCGGGCTGGGGCTGCCCCGGCCGCCCATGCTGCTGGCGCTGCTGTTGGCGACACTGCTGGCGGGCG
ATGTTGGCGCTGCTGACTCAGGTGGCGCTGGTGGTGCAGGTGGCGGAGGCGGCTCGGGCCCCGAGCGTCTCGGCC
AAGCCGGGGCGGGCGCTGTGGCCCCCTGCCGCTCTCGGTGAAGATGACCCCGAACCTGCTGCATCTCGCCCCGGAG
AACTTCTACATCAGCCACAGCCCCAATTCCACGGCGGGCCCCCTCTGCACCCTGCTGGAGGAAGCGTTTCGACGA
TATCATGGCTATATTTTTGGTTTCTACAAGTGGCATCATGAACCTGCTGAATTCCAGGCTAAAACCCAGGTTTCAG
CAACTTCTTGTCTCAATCACCCCTCAGTCAGAGTGTGATGCTTTCCCCAACATATCTTCAGATGAGTCTTATACT
TTACTTGTGAAAGAACCAGTGGCTGTCCCTTAAGGCCAACAGAGTTTGGGGAGCATTACGAGGTTTAGAGACCTTT
AGCCAGTTAGTTTATCAAGATTCTTATGGAACCTTCACCATCAATGAATCCACCATTATTGATTCTCCAAGGTTT
TCTCACAGAGGAATTTTGATTGATACATCCAGACATTATCTGCCAGTTAAGATTATTCTTAAAACTCTGGATGCC
ATGGCTTTTAATAAGTTTAATGTTCTTCACTGGCACATAGTTGATGACCAGTCTTTCCCATATCAGAGCATCACT
TTTCTGAGTTAAGCAATAAAGGAAGCTATTCTTTGTCTCATGTTTATACACCAAATGATGTCCGTATGGTGATT
GAATATGCCAGATTACGAGGAATTCGAGTCCTGCCAGAATTTGATACCCCTGGGCATACACTATCTTGGGGAAAA
GGTCAGAAAGACCTCCTGACTCCATGTTACAGTAGACAAAACAAGTTGGACTCTTTTGGACCTATAAACCTTACT
CTGAATACAACATACAGCTTCCTTACTACATTTTTCAAAGAAATTAGTGAGGTGTTTCCAGATCAATTCATTCAT
TTGGGAGGAGATGAAGTGGAATTTAAATGTTGGGAATCAAATCCAAAAATTCAAGATTTTCATGAGGCAAAAAGGC
TTTGGCACAGATTTTAAGAACTAGAATCTTTCTACATTCAAAGGTTTTTGGATATTATTGCAACCATAAACAAG
GGATCCATTGTCTGGCAGGAGGTTTTTGATGATAAAGCAAAGCTTGCGCCGGGCACAATAGTTGAAGTATGGAAA
GACAGCGCATATCCTGAGGAACCTCAGTAGAGTCACAGCATCTGGCTTCCCTGTAATCCTTTCTGCTCCTTGGTAC
TTAGATTTGATTAGCTATGGACAAGATTGGAGGAAATACTATAAAGTGGAACCTCTTGATTTTGGCGGTACTCAG
AAACAGAAACAACTTTTTCATTGGTGGAGAAGCTTGTCTATGGGGAGAATATGTGGATGCAACTAACCTCACTCCA
AGATTATGGCCTCGGGCAAGTGCTGTTGGTGAGAGACTCTGGAGTTCCAAAGATGTCAGAGATATGGATGACGCC
TATGACAGACTGACAAGGCACCGCTGCAGGATGGTGAACGTGGAATAGCTGCACAACCTCTTTATGCTGGATAT
TGTAACCATGAGAACATGTA~~AAAA~~AATGGAGGGGAAAAAGGCCACAGCAATCTGTACTACAATCAACTTTATTTTG
AAATCATGTAAATAAGATATTAGACTTTTTTGAATAAAATATTTTTATTGATTGAA

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FIGURE 1628

MELCGLGLPRPPMLLALLLATLLAAMLALLTQVALVVQVAEAAARAPSVSAKPGPALWPLPLSVKMTPNLLHLAPE
NFYISHSPNSTAGPSCITLLEAFRRYHGYIFGFYKWHHEPAEFQAKTQVQQLLVSTITLQSEDAFPNISSDESYT
LLVKEPVAVLKANRVWGALRGLETFSQLVYQDSYGTFTINESTIIDSPRFSHRGILIDTSRHYLPVKIILKTLD
MAFNKFNVLHWHIVDDQSFPYQSITFPELSNKGSYSLSHVYTPNDVRMVEYARLRGIRVLPEFDTPGHTLSWGK
GQKDLLTPCYSRQNKLDSEFGPINPTLNTTYSFLTTFKEISEVFPDQFIHLGGDEVEFKWESNPKIQDFMRQKG
FGTDFKKLESFYIQKVLDIATINKGSIVWQEVFDDKAKLAFGTIVEVWKDSAYPEELSRVTASGFPVILSAPWY
LDLISYGQDWRKYYKVEPLDFGGTQKQQLFIGGEACLWGEYVDATNLTPRLWPRASAVGERLWSSKDVRDMDDA
YDRLTRHRCRMVERGIAAQPLYAGYCNHENM

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FIGURE 1629

ATGGAAGAAGATGAGTTCATTGGAGAAAAACATTCCAACGTTATTGTGCAGAATTCATTAAACATTCACAACAG
ATAGGTGATAGTTGGGAATGGAGACCATCAAAGGACTGTTCTGATGGCTACATGTGCAAAATACACTTTCAAATT
AAGAATGGGTCTGTGATGTCACATCTAGGAGCATCTACCCATGGACAGACATGTCTTCCCATGGAGGAGGCTTTC
GAGCTACCCTTGGATGATTGTGAAGTGATTGAACTGCAGCAGCGTCCGAAGTGATTAAATATGAGTATCATGTC
TTATATTCCCTGTAGCTACCAAGTGCCTGTACTTTACTTTAGGGCAAGCTTTTTAGATGGGAGACCTTTAACTCTG
AAGGACATATGGGAAGGAGTTCATGAGTGCTATAAGATGCGACTGCTACAGGGACCATGGGACACTATTACGCAA
CAGGAACATCCAATACTTGGGCAACCCTTTTTTGTACTTCATCCCTGCAAGACGAATGAATTCATGACTCCTGTA
TTAAAGAATTCTCAGAAAATCAATAAGAATGTCAACTATATCACATCATGGCTGAGCATTGTAGGGCCAGTTGTT
GGGCTGAATCTACCTCTGAGTTATGCCAAAGCAACGTCTCAGGATGAACGAAATGTCCCTTAA

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FIGURE 1630

MEEDEFIGKTFQRYCAEFIKHSQQIGDSWEWRPSKDCSDGYMCKIHFQIKNGSVMSHLGASTHGQTCLPMEEAF
ELPLDDCEVIETAAASEVIKYEYHVLYSCSYQVPVLYFRASFLDGRPLTLKDIWEGVHECYKMRLQLQGPWDTITQ
QEHPILGQPFFVLHPCKTNEFMTPVLKNSQKINKNVNYITSWLSIVGPVVGLNLPLSYAKATSQDERNVP

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FIGURE 1631

TTTGCAGATGACGCCGCCGAGGAAAAC TGTGTACTATTAGCCATGGTCAACCCACCGTGTTCCTTCGACATTGCC
GTCGATGGCGAGCCCTTGGGCCGCGTCTCCTTTGAGCTGTTAGCTGACAAGGTCCCAAAGACAGCAGAAAATTTT
CATGCTCTGAGCACTGGAGAGAAAGGATTTGGTTATAAGGGTTCCTGCTTTCACAGAATTATTCCAGGGTTTATG
TGTCAGGGTGGTGA CTTCACACGCCATAATGGCACTAGTGGCAAGTCCATCTATGGGGAGAAATTTGAAGATGAG
AACTTCATCCTAAAGCATAACAGGTCCTGGCATCTTGTCCATGGCAAATGCTGGACCCAACACAAATGGCTCCCAG
TTTTTCATCTGCACTGCCAAGACTGAGTGGTTGGATGGCATGCATGTGATCTGTGGCAAAGTGAAAGAAGGCATG
AATATTGTGGAGGTCATGGAGTGCTTTGGGTCCAGGAATGGCAAGACCAGCAAGAAGATCACCATTGCTGACTGT
GGACAACTCGAATAAGTTTGACTTGTGTTTTATCTTAACCACCAGACCATTCCTTCTGTAGCTCAGGAGAGCACC
CCTCCATCCCATTTGCTCGCAGTATCCTAGAATCTTTGTGCTCTCGCTGCAGTTCCTTTGGGTTCCATGTTTTTC
CTTGTTCCCTCCCATGCCTAGCTGGATTGCAGAGTTAAGTTTATGATTATGAAATAAAAAC TAAATAACAA

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FIGURE 1632

CTCTTTTCGCTCAGGCCCGTGGCGCCGACAGGATGGGCAAGTGTCGTGGACTTCGTACTGCTAGGAAGCTCCGTAG
TCACCGACGAGACCAGAAGTGGCATGATAAACAGTATAAGAAAGCTCATTGCGGCACAGCCCTAAAGGCCAACCC
TTTTGGAGGTGCTTCTCATGCAAAAAGGAATCGTGCTGGAAAAAGTAGGAGTTGAAGCCAAACAGCCAAATTCCTGC
CATTAGGAAGTGTTGTAAGGGTCCAGCTGATCAAGAATGGCAAGAAAATCACAGCCTTTGTACCCAATGACGGTTG
CTTGAACTTTATTGAGGAAAATGATGAAGTTCTGGTTGCTGGATTGGTCGCAAAGGTCATGCTGTTGGTGATAT
TCCTGGAGTCCGCTTTAAGGTTGTCAAAGTAGCCAATGTTTCTCTTTTGGCCCTATACAAAGGCAAGAAGGAAAG
ACCAAGATCATAAATATTAATGGTGAAAACACTGTAGTAATAAATTTTCATATGCC

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FIGURE 1633

MGKCRGLRTARKLRSHRRDQKWHDKQYKKAHLGTALKANPFGGASHAKGIVLEKVGVEAKQPNSAIRKCVRVQLI
KNGKKITAFVPNDGCLNFI EENDEVLVAGFGRKGHAVGDIPGVRFKVVKVANVSLLALYKGKKERPRS

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FIGURE 1634

TTTATTTTAATTGCCGTAAAGGAAGTGTATTTTTGTTTTGTTTTTTAAACACAGCACTTTAAATCCAGTTTGTGTT
TTGTCAACTTGAAGTGAATCTCTTTTGTACTTTGGAGGTGATAAATAGTTTTCAAATCTGCTGATTGTATAC
TGTGGCACAAGTATCTTTGAAGTTTGATAGTGAAAGGAGACCTTCAACAATTTTAGTCTAGGCGAGAGGAATAT
TAGGAATGTGACTTCTAAATTTTACAATAGAGCAGTTATTTTAAGGTCATGGTTAACATTTCTTAAGGTTCAACT
AAAATTCAGTTAAAAATTTTACAGAGCTACGAGGAAGTAAATCTTAGCTAAAAATTACCTGTTGTAGATAGTATTAA
TTAGATTGTTTGCAGCTATTAATTCATCATAAAGATAAAATGAAGAACTCTCCCTTTTTTTAAACAAAATAAT
TATTTCTAGATTAAATAGGCTAGTAGTTATTTCTGCAGAAACAACGTATGGAAGTGAAGCCACCTATTTTTATTT
TAGACTAATTTAAACCACTTGAATGGATTCTAGGAAACATCTTAAGCTTGTGTGTTGCCTGTGGTGGTTTTTTG
TTTGGGGGTGTTTTTGGTTTTGGTTTTGATTTTCTGTATTTTGTATCTGGGGATTTTTTGTGTTGTTGTTTTG
TTTGGTTTTGGTTTTATTTTTTGGCATGTCTATGGCAGTTAAAGTGGTATATTTTGCCTTAGATAGGGAATCA
GGTTATAATCATTGTTCTTCTCTAACTGCCTCTTGGGCTTTACATCAGGTCAAGGATTTTTTAGGGTTTCTCAA
AAATAGGATTCTTGTGCTAGTGTATGCATGCTGAGTAAGTCACCTTTCTGGCTCTAATTTCTGGGTGGCCATCTGTT
GTCCAGCTCTGCTGCCAAGTGGACTTTCCGAAAGCCATGTCAACTAATTTTTATATGCTAAGACAAATCGAATA
TGAAAGAGGAAGAATATTCTAGATATTCTAAGACATTTCTTAATTTGGCATCTCAGAGGAGGTAGGTGGAAAGT
AAAGGAAGAGATAATTTTGGGGGAAAATTTGTGGAAACATACAAAACGTTTTGCTTTGTATAGATGCTAAACAGA
GTGGGAGGCAGCATATTTGTAACAACAACCATTTCTGACCTTTTGAAACACAAGCTTTTGGAGAAGTCAGGGAGAG
ACACAGTATGAATAAAAGCAATTAACATTTTCTTTAATGTATATTTTTCAAAGAGGACCACGGAATCCTGTTCTC
TAACCAAGGGGCGAGTGTAGGTGGTTTTAAGCCACAGAATATTGAGATATTTCTCTTGTGGTTTTGGTGGGGTG
GTGGGATGCAGAAAGTTATTAAGATCAATTTAAGCATCAGATAGACTATCCCTTTTATTTTTTTAACTTTTAGG
TTCAGGGGTACATGTGCAGGTTGTTATATAGGTAACTCATGTCAAGTGGTTTTGTTGTACAGATTATTTGTCA
CCCAGGTGCTAAGCCTAGTACCCAGTAGTTATTTTCCCTGCTCTTCTCCCTCCTCCACCCCTCCACCCCTCAAGTA
GGCCCCAGTGTCTGTTGTTCTCTTTCTTTGTGTCTTTGAGTTCTCATCATTTAGCTCCTACTTCTAAATGAGAACA
TGTATTTGGTTTTCTGTTCTGTGTAGTTTGCTAAGGATAATGGCCTCCAGCTCAGATGGAATATCTCTATCATA
TAGACCTGTTGTTACAGGGCAGGATCGGATGATGGACACTGAAGTCCCTCAGCTTGCTAAGTTCAGTTGCTCTCCC
TAGCCTCCTTTTGGCTTCAGAGTCTTTTGATTCCATCTATCCTGGTATTTTTTGTGTGCTGATGTTTAGTTCTGG
ATTGGCTTCAGCTGTGCTAATAGGAAGGGCGTTGTCTTTTCAAGCAATCTTAAAGGTGGTCAATCAAAGGCCA
GAGTCTGAATCCCTTCTGTGGCTTAAATAATTTGAGGATCAAGTCCAGTGTCTTGTTAATCCCTGTTCTACTGTG
CCAGACACTATCTTGAATGCTTTTATATGTTTCAAGGTTCAAAATCGCTCTTTCATACCAGGGGATGATAGTAACGT
GTAACCTTGCAATAGATTCCCTTCATCTTAGTAATAAGATGATCAGTCTAGTTAGGACAAAATAGAGATTGAATAAA
TTAACTTTTCCAAGTTTACAGAGTAAAAATGAGCAGATCTCTGCCTGGTTTTGTGAAAAAGAGTTAGCACTGGTA
AATAGAATATTTCTACTCCTACACCATTTCTTTTCAAGTATATCATCACTGAAGACAGGAAGATAGGCACACAGATTC
TTCTCTGATAGTAATTCATAGTGCCTAGGTGAAAGAGATGAAGTATGTATTAAGTACAATGTGATGGCATTTA
TTATTACAGATAATCCCAGGATTCTAGAAGAAAATAAAGAAGAGTGACAGTTCAGTTAGGGTGTGAACCTCCAGAG
GAGCACTGCTTAAGCTGAAGTTGAGAGCATTGTGCAAAAGCACAGTAGTCTGTTAAGAACTAGAAATAACCTAGC
TTGTGCCACTTCGGGAGTATTAAGACATAAGCCTAGAAAGGTAGGCAAAGGTTAGATCTTAGACTGTCTTGTATT
TTTCTCATTCTGTTGATTACCTACCTCAAATTTGAATATGTTTTTCTCTGCTAACACAAAACCTACTCAAGG
GCAGAAATTTAAATTTCTCCTTGGTGTATGTGCAAAAGAAGGTTGAATATATTCATGCCTACCTTATTTTGGACTA
GGAATACAGTAGTATACCTTTCCGAAGACTTGCCTGAATAGTATATAAGGTGGAGGCAACTGACTAGTTAGGTCAG
TATTTTTAGAACTCTTAATAGCTCATACTCTTGATACCAAAAGCAGCCCTGATTGTTAAAGCACACACCTGCAC
AAGAAGCAGTGATGTTGATTTACATTTCTTGGGTGCACAAAAAAATTTCTCAAAAAGCAAGGACTTACGCTT
TTTGCAAGCCTTTGAGAAGTTACTGGATCATAGGAAGCTTATAACAAGAATGGAAGATTCTTAATAACTCACT
TTCTTTGGTATCCAGTAACAGTAGATGTTCAAAATATGTAGCTGATTAATACCAGCATTGTGAACGCTGTACAAC
CTTGTGGTTATTACTAAGCAAGTTACTACTAGCTTCTGAAAAGTAGCTTCATAATTAATGTTATTTATACACTGC
CTTCCATGACTTTTACTTTGCCCTAAGCTAATCTCCAAAATCTGAAATGCTACTCCAATATCAGAAAAAAGGGG
GAGGTGGAATTATATTTCTGTGATTTTAAAGAGTACAGAGAATCATGCACATCTCTGATTAGTTCATATATGTCT
AGTGTGTAATAAAAGTCAAGATGAAGTCTC

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FIGURE 1635

MASSSDGISLSYRPVVTGQDRMMDTEVLSLLSSVALPSLLLASESFDSIYPGIFCVLMFSSGLASAVLIGRALSF
QAILKGGQSKGQSLNPFCGLNNLRIKSSVLLIPVLLCQTLS

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FIGURE 1636

CGGGATTTAGATCACGTCCCGCAGGCCGGCGGAAGTAGCTGATACTCTCATTGGTTGCAAAACCTTGATCTGTGA
AAGCGGGCGTTTTTGAAGATACCGGAAGTAGAGTCACGGAGAGGTATTAAGAAATGGAGAGAAAAATAAGCAGAA
TCCACCTTGTTTTCTGAACCCAGTATAACTCATTCTTCTACAAGTATCTTGGGAGAAAACACTGGAATCTGGTTTTG
TTATTACACTTACTGATGGTCATTTCAGCATGGACTGGGACAGTTTCTGAATCAGAGATTCCCAAGAAGCTGATG
ACATGGCAATGGAAAAAGGGAAATATGTTGGTGAAGTGAAGAAAGCATTGTTGTCAGGAGCAGGACCAGCTGATG
TATACACGTTTAATTTTTCTAAAGAGTCTTGTTATTTCTTCTTTGAGAAAAACCTGAAAGATGTCTCATTTCAGAC
TTGGTTCCTTCAACCTAGAGAAAGTTGAAAACCCAGCTGAAGTCATTAGAGAACTTATTTGTTATTGCTTGGACA
CCATTGCAGAAAATCAAGCCAAAATGAGCACCTGCAGAAAGAAAATGAAAGGCTTCTGAGAGATTGGAATGATG
TTCAAGGACGATTTGAAAAATGTGTGAGTGCTAAGGAAGCTTTGGAGACTGATCTTTATAAGCGGTTTATTCTGG
TGTTGAATGAGAAGAAAACAAAATCAGAAGTTTGATAATAAATTATTAAATGCAGCTCAAGAACGAGAAAAGG
ACATCAAAACAAGAAGGGGAAACTGCAATCTGTTCTGAAATGACTGCTGACCGAGATCCAGTCTATGATGAGAGTA
CTGATGAGGAAAAGTGAAGAACCAAACTGATCTCTCTGGGTTGGCTTCAGCTGCTGTAAGTAAAGATGATTCCATTA
TTTCAAGTCTTGATGTCAGTATGATATTGCACCAAGTAGAAAAAGGAGACAGCGAATGCAAAGAAATCTTGGGACAG
AACCTAAAATGGCTCCTCAGGAGAATCAGCTTCAAGAAAAGGAAAAGCCTGATTCTTCACTACCTGAGACGTGCA
AAAAGGAGCACATCTCAGCTGAAAACATGTCTTTAGAAACTCTGAGAAACAGCAGCCCAGAAGACCTCTTTGATG
AGATTTAAACAGTCTCAAAAAATACTTTGATGTTCACTAGACTATGTTTTCTATTCTTTTAAAATGAAAAG
GAGAATTTCAAGTCAGCAGCCGCTATTACCGTATCTTACAATTTAATTACATACACAGTGAATTGAAACCATTGT
GCAAAATGGATTACACATGTATACAAAGATACGATTTGATGATGACACTGGCACATTGAGTTCTAACTATTTCAT
TCAGCATGCCTATAATTACATAAATTGTATGAGACTTTTTGTTGCAAAGGACACATTTATCATATTCATTTCACAC
ATATTATATGTGATAGCTGTCCAACATCCTGTCTGGGAAGATTTTGAAAACAGGACAAAGAAAACATCATTTTAA
AATGTCTTCAGCTTTTTTTGAATAGACGTATTCAAACATATTCTGAACATTGATGTTTGAACATTTTAAATTTGTG
TGATGATGTAGAAAATATAATTTTAGTTTGTACATAAACATTGTGAAAATCTGATAATAAAATTTTGTATACATT
GAAAAAAAAA

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FIGURE 1637

MERKISRHLVSEPSITHFLQVSWEKTLES GFVITLTDGHS AW TGTVSESEISQEADD MAMEKGKYVGELRKALL
SGAGPADVYTFNFSKESCYFFFEKNLKDVSFRLGSFNLEKVENPAEVIRELICYCLDTIAENQAKNEHLQKENER
LLRDWNDVQGRFEKCVSAKEALETDL YKRFILVLNEKKT KIRSLHNKLLNAAQEREKDIKQEGETAICSEMTADR
DPVYDESTDEESENQTDLSGLASAAVSKDDSISSLDVTDIAPSRKRRQRMQRNLGTEPKMAPQENQLQEKEKPD
SSLPETSKKEHISAENMSLET LRNSSPEDLFDEI

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FIGURE 1638

CGGGATTTAGATCACGTCCCGCAGGCCGGCGGAAGTAGCTGATACTCTCATTGGTTGCAAAACCTTGATCTGTGA
AAGCGGGCGTTTTGGAAGATACCGGAAGTAGAGTCACGGAGAGGTAGGATCCGGAAGTGGGGCTGCCTCTTTAAA
TAACAAAAATCTGAGGTATTAAGAAATGGAGAGAAAAATAAGCAGAATCCACCTTGTTTCTGAACCCAGTATAAC
TCATTTTCTACAAGTATCTTGGGAGAAAAACACTGGAATCTGGTTTTGTTATTACACTTACTGATGGTCATTGAGC
ATGGACTGGGACAGTTTCTGAATCAGAGATTTCCCAAGAAGCTGATGACATGGCAATGGAAAAAGGGAAATATGT
TGGTGAACCTGAGAAAAGCATTGTTGTCAGGAGCAGGACCAGCTGATGTATACACGTTTAATTTTCTAAAGAGTC
TTGTTATTTCTTCTTTGAGAAAAACCTGAAAGATGTCTCATTGAGACTTGGTTCCTTCAACCTAGAGAAAGTTGA
AAACCCAGCTGAAGTCATTAGAGAACTTATTTGTTATTGCTTGGACACCATTGCAGAAAAATCAAGCCAAAAATGA
GCACCTGCAGAAAAGAAAAATGAAAGGCTTCTGAGAGATTGGAATGATGTTCAAGGACGATTTGAAAAATGTGTGAG
TGCTAAGGAAGCTTTGGAGACTGATCTTTATAAGCGGTTTATTCTGGTGTTGAATGAGAAGAAAAACAAAAATCAG
AAGTTTGATAATAAATTATTAATGCAGCTCAAGAACGAGAAAAGGACATCAAAACAAGAAGGGGAAACTGCAAT
CTGTTCTGAAATGACTGCTGACCGAGATCCAGTCTATGATGAGAGTACTGATGAGGAAAGTGAAAAACCAACTGA
TCTCTCTGGGTTGGCTTCAGCTGCTGTAAGTAAAGATGATTCCATTATTTCAAGTCTTGATGTCAGTATTTGC
ACCAAGTAGAAAAAGGAGACAGCGAATGCAAAGAAATCTTGGGACAGAACCTAAAAATGGCTCCTCAGGAGAAATCA
GCTTCAAGAAAAGGAAAAGCCTGATTCTTCACTACCTGAGACGTCGAAAAAGGAGCACATCTCAGCTGAAAACAT
GTCTTTAGAACTCTGAGAAACAGCAGCCAGAACCTCTTTGATGAGATTTAACAGTCTCAAAAAATACTTTG
ATGTTCACTAGACTATGTTTTCTATTCATTTCTTTAAAATGAAAAAGGAGAATTTCAAGTCAGCAGCCGCTATTA
CCGTATCTTACAATTTAATTACATACACAGTGAATTGAAACCATTGTGCAAAATGGATTACACATGTATACAAAG
ATACGATTTGATGATGACACTGGCACATTGAGTTCTAACTATTTCATTGAGCATGCCTATAATTACATAAATTGT
ATGAGACTTTTTGTTGCAAAGGACACATTTATCATATTCATTACACATATTATATGTGATAGCTGTCCAACATC
CTGTCTGGGAAGATTTTGAAAACAGGACAAAAGAAAACATCATTTTAAAATGTCTTCAGCTTTTTTTGAATAGACG
TATTCAAACATATTCTGAACATTGATGTTTGAACATTTTAATTTGTGTGATGATGTAGAAAATATAATTTTAGTT
TGTACATAAACATTGTGAAAATCTGATAATAAAATTTTGTATACATTGAAAAAAA

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FIGURE 1639

MERKISRHLVSEPSITHFLQVSWEKTLES GFVITLTDGHS AW TGT VSESEISQEADD MAMEKGKYVGELRKALL
SGAGPADVYTFNFSKESCYFFFEKNLKDVSFRLGSFNLEKVENPAEVIRELICYCİDTIAENQAKNEHLQKENER
LLRDWNDVQGRFEKCVSAKEALETDL YKR FILVLNEKKTKIRSLHNKLLNAAQEREKDIKQEGETAICSEMTADR
DPVYDESTDEESENQTDLSGLASAAVSKDDSI ISSLDVTDIAPSRKRRQRMQRNLGTEPKMAPQENQLQEKEKPD
SSLPETSKKEHISAENMSLET LRNSSPEDLFDEI

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FIGURE 1640

[illegible]

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FIGURE 1641

TTACCTTCTACTGAAGAGGTTGTGGTCATTCTCTGGAAATATCTGAATTCATTCTGAGCGGTGGCCAGGGCAGG
TCCCCGTTCTTGCCGATGCCCATGTTCTGGGACACAGCGACGATGCAGTTTAGCGAACCAACCATGACAGCAGCG
GGAGGACCTCCGAGCCCGCTCGTTACAGCAGAACGCGCGGTCAAGTTTGGCGCGAAATTGTGGCCGCCCCGCCCC
CTCGTCCCTATTTGTGCAGGCGAGGCCCCGCCCCCGCCCCGGCGCACGCAGGGTCGCGGCGTGCTCGCGCCCCG
CAGACGCCTGGGAAGTGC GGCCG

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FIGURE 1642A

CTCCAATACCGCAGGAGGGCGGTCTTCCCCGGCTCGCCAACTCGGCTGCTCTGGGGGATTCTGTGCGCGGTAAGAA
GCTGCGCGGTAGCGCGGTGAGGTGAGGTCTCTAGCCACCAAAGCTGCAGGGTCTCGTCGTTTCGTTCCCTCTGGCC
TGGCGGAACCTTGCCTGGGAAGCTGGGAGGACAGAAGGCTTAGCCGCTGGGTCCCTGAGCTGGCTGGAGCGCGGGC
TGTCTAGGGGCGGCGACCTCAGCTGTTGGGCTCCGGCTGCTGGGGGCTGTGCGTCCAGCCGCCCTGGAATCCGCC
TGTGGGTGGGCGCTTGGCTCTCCCACTTCACCCTCTTGATAACCCAGAGCCTCCCCCTTCCACGTACGTAGGG
GAAGGATAATCTACTTCCTTTTGAACAGCTTCGGTCCCCACTATGACAGTCGCATAAACTTCAGCGAAGAGTGCG
CTGGTAAAGTGGCATGGAGTTTCTCACACCAATTTCATTGGGTCCACCCTTCAGCTTCTGTGGAAGGGGTCTTTCT
GTTACTAGGAGCTGAGACTTGGGGGGTTGCCAGGGATGCTGGTCTTAAAAGGTGATAATTTAGGCCGGGCGCGGT
GGCTCACGCTGTAAATCCCAGCACTTTGGGAGGTGAGGCGGGCAGATCTCCTGAGCTCAGGAGTTCGAGACCAC
CCTGGGCAACATGGTGAAACCCCTTCTCTACTAAAATACAAAAATTAGCTGGGCGTGGTGGCACGCGCCTGTAA
TCCCAGCTATTTCGGGAGGCTGAGGCCGAGAATCGCTTGAGCCCTGGCGGCAGAGGTTGCAGTGAGCCAAGATCG
CCCACTGCACTCCAGGTTGGGCTACAGAGTGAGACTCCGTCTCAACAACGACCACAACAACAACAAAAAGGTGG
TGGCTTAATACAGCCATGCTCCCCCTTAAGAACTGGTATAGTTATGAGAAATGGTTGGGCCGTTTCGTGGTTGTGT
GAACATCATAGTGTACTTGACAAACCTACACAGCTGGGCGGTATGGGATAGCCTGTTACTCCTAGTCTACAGAC
CTGTACAGTATAACTACTAAATACTGTAGGCAGTTGTAAAAGGATGGTGTGTATCTAAACACAGAAAAGATACTG
TAAAAATATAGTGTAAAAGAAAACATGGTACAGCTGAATAGGGCACTTACGCATGGAGCTTGAGGGCTGTGCGT
AGCTATTAAGTGAGTCAGTGAGTGGTATGTGAGTGTGAAGGCCTACGATATTATTTAGGGTATTACTGTACACTA
CTGTAGACTTTATAAATGCGGTATGCTTAGTCTAAGTTTATTAAAAATAAGGTAATAACCTTAGCTTACTGTGCT
TTTTTAACCTTTATAAATTTTAAATTAATTTTAACTCCTTGACCTTTTTTTTTTTTTTTTGGAGACGGAGTTTATTC
TCTCTGTCTCTCATTTTTTGAGACAGAGTTTTGCTCTTGTCACCCAGGCTGGAGTGCAGTGGCGCAATCTCAGCTC
ACTGCAACGTCCACCTCTTGAGTTCAAGCGATTCTCCTGCCTCAGCTTCCCAGGTGGTGCGCGCCTGTAGCTGGG
ACTACAAGAGTGCGCCACCACGCCAGCTAATTTTTGTATTTTTAGTAGAGATGGGGTTTGACCATGTTGGCCAG
GATGGTCTCGATATCCTGACCTTGTGATCCACCTGGCCTTGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCC
ACCATACCCGGCCCACTCTTTTGTAAATAACACTTAGCTTAAATGCTAATGTGTTGTATAGCTATATAAAAAATAT
TTTCTTTATTCCCTTACATTATTCTATAGCTTTTTCTGTAAAAATTTTTTTTTTGTGTTATAAACTAAGACACAC
ACATTGTCCTACACCGGCTCAGGAGCATCAATATCACTCTTTTCTTCTCCACATCTTGTCTACTGGAAGGTT
TTCAGGGGCGAGTAACATGAATGGAGCTGTCTCTCTATAATAACTGCTTTTTTCTGGAATACTTATAATTGTCT
AGTATTATGTACAGTACATCATTGTAAGCATTATGCTTGTATATGACTGGCATCCCAGGTTTGTTTACACCAGCA
TTACCACAGACATGAGTAATGTGTTACACTACAAGTTATGAGGGCTACAAAGTCAATAGGAATTTTTCAGCTCCA
TTATAATCATCTGAGACCAGTATCATGTGTGCAGTCGCTGTTGACCTAAATGTTATGTAGCATGTGACTAGCTGA
TGAATCTTTGATTATGGCTGAATGTTCTCATTTCATTGCAGGAAAAAATATCCTCCAAATCACTAGGTAGTATGT
AAGTGACCAAAACTTTTTCCATTTTATGTTGGAGCCAAATCATTAGTGTTAGGATAAATTACTTCTTTATGTAT
GTGCTCTAAAAATGAAAAGTTATTTCTGAATATTAAAGCATATGTATTAAGAGTATAAAAAACAAGATACAGATTTT
GGTGTGAAATATATCTTATGATTCAAGTCATAATTTAAATAGAATTGAAGATGATGTGAAATCACTGGGCTGGAA
GTAGCTTATACCTTGATTAGTAAGAGGAAGCCCGGGATCATCTGTGATGGTAAACACTTTTATATGTTTTACTT
ATAACTTTGCCAGGAAATTTCAACAAACTTCATATTAAAGGACATGATTTCTGTATACTTAGTAATCTGCTATGC
AAATTGTTGCATTGAAATGGCAGACGAAGCAAGAAGATTGGGAGAAAGTAGCTGTGGGACTTGAGATAGGAAAA
TAAACAGCCGGGAAACTGCAGAAATGTGGGAGGAATAATTGCATTTCATTGTATTACTATCTGATTTATTTTTAT
GAAATAATTTGGTTTCTTAAGATAGTTTTTCAATTTTAAAGCACACCTTTTTTAACTGGTGTGGCAGCTTTTCTGG
TAAGTGGTATGATTTATGTTAGAAGCATGTCTATGCAGCATATTATAGCATTAAATATGTATACAGATATCTAACT
GAAATAAAAAAGTGTTTTAATAATTAAAGTTTAAACATATGGGCATATGTGACATATAGTGATATAGCATGTCTCT
TTAGTTTTGTGTTTTTGTGTTGATGGCTAACCAACCATGCTTGTCTTAAAAATTGATAAGGTACCACTGATGA
AATTATGACCAGGTGGGCCCCGAGTTAGTACCACATATAACAAGAGACCCTTGCCCTGCAACATCATGGGAGGACAT
GAAGAAGGGATCCTTTGAGGGAACAAGCCAAAACCTACCAAAGCGTAAACAACCTTGAAGCCAAATAGGCTATCCCT
CAAAAATGATGCACCCCAAGCAAAACATAAAAAGAACAAAAAGAGTACTTAAATGAAGATGTGAATGG
ATTTCATGGAATACCTAAGACAGAATTCACAGATGGTTCACAATGGGCAAATTATAGCAACAGACAGTGAGGAAGT
AAGGGAAGAAATGCAGTTGCTTTAAAGAAAGACAGTCGACGGGAAGGAAGAAGATTAAAAAGACAAGCGGCAAA
GAAAAATGCAATGGTGTGTTTCCATTGTAGAAAACCTGGTCATGGAATTGCAGATTGCCCCGCCGCCCTTGAAAA

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FIGURE 1642B

TCAAGACATGGGCACTGGGATATGTTACAGGTGTGGGTCCACAGAGCACGAAATAACCAAGTGTAAAGGCTAAAGT
AGACCCGGCTCTTGGCGAATTTCTTTTGCAAATGTTTTGTTTGTGGAGAAATGGGGCACCTGTCTAGATCTTG
TCCTGATAATCCCAAAGGACTCTATGCTGATGGTGGCGGTGCAAACCTTGTGGCTCTGTGGAACATTTAAAGAA
AGATTGCCCTGAAAGTCAGAATTCAGAGCGAATGGTCACAGTTGGTCGCTGGGCAAAGGGAATGAGTGCAGACTA
TGAAGAAATTTTGGATGTACCTAAACCGCAAAAACCCAAAACAAAAATACCTAAAGTTGTTAATTTTTGATAACA
GCTAGCACTATCATGAGTTACTACCTCATTGTTACTTTCTAAACCAGGCCCGCTTCACGAGTTAGAGTTGAGCTC
CCCTGTAGCCAGGACTATGCTGTAGATATCAGTATGATCTGGGTGTGGCCAAAAACAATTTTCTTTATTCTGTCT
ATCAAATAGTACTTCTACCACTGTTTGGAGAAAATTGAAGAAAAGAATAAGATGATTAAATGAATTCCTCTAAAG
AACATATTTTAAGAGACAGAACTTAGACATAACCAAGTAGTTGTATACCTGATTGTAACAATCATCTTTTATAAA
AGCAAAATTATGCATAAATGTAAACACCCCTAAACAAAGGGAACAAATGAATTTTGGTTATATTGTTTTCTTG
GCTCAAAGTATCAATTTATTATTATAATAGAAATTTATAAGTTGCTAGAAAGTCTATATTTTTAAAGTACGGAAT
AAAAATATGTTTTCTATTAAGCAATAGAAATATTTTGTGTATAATTTTCTGAATACTTGATTCTCGATTGAAA
TATCCATTGTTTCGTTAATATCCATGTAACAATCCCATTGGAAACAAGATTTTTTTGAATCCTAGATGAGAATAAA
CAGGGATTGGTTTTTGTTTTAGTTTTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1643

MTRWARVSTTYNKRPLPATSWEDMKKGSFEGTSQNLPKRKQLEANRLSLKNDAPQAKHKKNNKKKKEYLNEDVNGF
MEYLRQNSQMVHNGQIIATDSEEVREEIAVALKKDSRREGRRLLKRQAAKKNAMVCFHCRKPGHGIADCPAALNQ
DMGTGICYRCGSTEHEITKCKAKVDPALGEFFFAKCFVCGEMHLSRSCPDNPKGLYADGGGCKLCGSVEHLKKD
CPESQNSERMVTVGRWAKGMSADYEEILDVPKPKPKPKTKIPKVVNF

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FIGURE 1644

GGGGAGGCTGTGATGGGTTGACAGGTGCGTGACAGTGGGAGCTGCTCTCGGCACAAGCATGTACGGCAAAGGCAA
GAGTAACAGCAGCGCCGTCCCGTCCGACAGCCAGGCCCGGGAGAAGTTAGCACTCTACGTATATGAATATCTGCT
CCATGTAGGAGCTCAGAAATCAGCTCAAACATTTTTATCAGAGATAAGATGGGAAAAAACATCACATTGGGGGA
ACCACCAGGATTCTTACATTCTTGGTGGTGTATTTTTGGGATCTCTACTGTGCAGCTCCAGAGAGACGTGAAAC
ATGTGAACACTCAAGTGAAGCAAAAGCCTTCCATGATTACAGTGCTGCAGCAGCTCCCAGTCCAGTGCTAGGAAA
CATTCCCCCAGGAGATGGCATGCCAGTAGGTCTGTACCACCAGGGTTCCTTCAGCCTTTTATGTCACCTCGGTA
CCCTGGAGGTCCAAGGCCCCCATTGAGGATACCTAATCAGGCACTTGGAGGTGTCCCAGGAAGTCAGCCATTACT
CCCCAGTGGAATGGATCCAACTCGACAACAAGGACATCCAAATATGGGTGGGCCAATGCAGAGAATGACTCCTCC
AAGAGGAATGGTGCCTTAGGACCACAGAATATGGAGGTGCAATGAGACCCCCACTGAATGCTTTAGGTGGCCC
TGGAATGCCTGGAATGAACATGGGTCCAGGTGGTGGTAGACCTTGGCCAAACCAACAAATGCCAATTCAATACC
ATACTCCTCAGCATCTCCTGGGAATTATGTAGGTCTCCAGGAGGTGGAGGGCCACCAGGAACACCCATCATGCC
TAGTCCAGCAGATTCAACCAACTCTGGTGATAACATGTATACTTTAATGAATGCAGTACCTCCTGGACCTAACAG
ACCTAATTTTCCAATGGGTCTGGGTCCAGATGGTCCCATGGGTGGATTAGGAGGAATGGAGTCACATCACATGAA
TGGCTCTTTAGGCTCAGGAGATATGGACAGTATTTCCAAGAATTCTCCCAATAATATGAGCCTGAGTAATCAACC
GGGCACTCCAAGGGATGATGGCGAAATGGGGGGAAATTTCTTAAATCCTTTTTCAGAGTGAGAGTTACTCCCCTAG
CATGACAATGAGCGTGTTCATCCATTACCAAGTCTCCTCATGAAAACCACAGTGAGTCAGCCCTTCACAGAACTAC
TACGGAAGAAAATTATTATCACAGTGACAGTTAAACAAAGGAATCTCAGTCACACCAAAACCAACCTTTTTATT
TCCTGCTCTCTCCCCTCTTTTGTGAAGAAAGCGGGTCCAAATGTGATTCAAACAACCTGTACGGAGTGGCATATTA
GAATTGCCCTAAACTGAACTGCAAAATAATTATGTGTGTATGTATATGTGTGGGAAAGAGAATGTACTGTATATGT
GTATGTTATACAGACATATACACATACATACATTGACCCACAGGACATTGTAAAATATTATCACATGACATCTTA
AGTAGAAATAAGTAGGGACTTTTTATTCCATCCTTTTTTTTACGTTTACATTTTAATTATTACAAGTTGCTCCTGC
CCCCTCCCTGAACTATTTTTGTGCTGTGTATATCACTGCTTTATATAAGTTATTTTTTAAGGTGAACTCAGATGTT
ATGGTTTTGTAAATGTCTGCAATCATGGATAGGAATAAAATCGCTTATTTGAGAGCTTTC

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FIGURE 1645

MYGKGKSNSSAVPSDSQAREKLALYVYEYLLHVGAQKSAQTFLSEIRWEKNI TLGEPPGFLHSWWCVFWDLYCAA
PERRETCEHSSEAKAFHDYSAAAAPSPVLGNIPPGDGMFVGVPVPPGFFQPFMSPRYPGGPRPPLRIPNQALGGVP
GSQFLLPSGMDPTRQQGHPNMGGFMQRMTPPRGMVPLGFPQNYGGAMRFFLNALGGPGMPGMNMGPGGGRPWPNT
NANSIPYSSASPGNYVGPPGGGGPFGTPI MPSPADSTNSGDNMYTLMNAVPPGPNRPNFPMGP GSDGPMGGLGGM
ESHHMNGSLGSGDMDSI SKNSPNNMSLSNQPGTPRDDGEMGGNFLNPFQSESYSPSMTMSV

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FIGURE 1646A

GAATTCCCAGCTCTCTGCTCGCTCTGCTCGCAGTCACAGACACTTGAGCACACGCGTACACCCAGACATCTTCGG
GCTGCTATTGGATTGACTTTGAAGGTTCTGTGTGGGTCGCCGTGGCTGCATGTTTGAATCAGGTGGAGAAGCACT
TCAACGCTGGACGAAGTAAAGATTATTGTTGTTATTTTTTTTTTCTCTCTCTCTCTCTCTTAAGAAAGGAAAATA
TCCAAGGACTAATCTGATCGGGTCTTCCTTCATCAGGAACGAATGCAGGAATTTGGGAAGTGAAGTGTGCAAGT
GCTGAAGAAGGAGATTTGTTTGGAGGAAACAGGAAAGAGAAAGAAAAGGAAGGAAAAAATACATAATTTTCAGGGA
CGAGAGAGAGAAGAAAAACGGGGACTATCGGGGAGAAAAAGATTTCAGATTACGAGGATTATGGATGAACGTAACA
GACAGGTGACATTTACAAAGAGGAAATTTGGGTTGATGAAGAAGGCTTATGAGCTGAGCGTGTGTGACTGTG
AGATTGCGCTGATCATCTTCAACAGCACCAACAAGCTGTTCCAGTATGCCAGCACCGACATGGACAAAGTGCTTC
TCAAGTACACGGAGTACAACGAGCCGCATGAGAGCCGGACAACTCAGACATCGTGGAGACGTTGAGAAAAGAAGG
GCCTTAATGGCTGTGACAGCCAGACCCCGATGCGGACGATTCCGTAGGTCACAGCCCTGAGTCTGAGGACAAGT
ACAGGAAAATTAACGAAGATATTGATCTAATGATCAGCAGGCAAAGATTGTGTGCTGTTCCACCTCCCAACTTCG
AGATGCCAGTCTCCATCCCAGTGTCCAGCCACAACAGTTTGGTGTACAGCAACCCTGTCAGCTCACTGGGAAAACC
CCAACCTATTGCCACTGGCTCACCCCTTCTCTGCAGAGGAATAGTATGTCTCTGTTGTAACACATCGACCTCCAA
GTGCAGGTAACACAGGTGGTCTGATGGGTGGAGACCTCACGTCTGGTGCAGGCACCAGTGCAGGGAACGGGTATG
GCAATCCCCGAAACTCACCAGGTCTGCTGGTCTCACCTGGTAACTTGAACAAGAATATGCAAGCAAAATCTCCTC
CCCCAATGAATTTAGGAATGAATAACCGTAAACCAGATCTCCGAGTTCTTATTCCACCAGGCAGCAAGAATACGA
TGCCATCAGTGTCTGAGGATGTGACCTGCTTTTGAATCAAAGGATAAATAACTCCCAGTCGGCTCAGTCATTGG
CTACCCCACTGGTTTTCCGTAGCAACTCCTACTTTACCAGGACAAGGAATGGGAGGATATCCATCAGCCATTTCAA
CAACATATGGTACCGAGTACTCTCTGAGTAGTGCAGACCTGTCATCTCTGTCTGGGTTTAACACCGCCAGCGCTC
TTCACCTTGGTTTCAGTAACTGGCTGGCAACAGCAACACCTACATAACATGCCACCATCTGCCCTCAGTCAGTTGG
GAGCTTGCACTAGCACTCATTTATCTCAGAGTTCAAATCTCTCCCTGCCTTCTACTCAAAGCCTCAACATCAAGT
CAGAACCTGTTTTCTCCTCCTAGAGACCGTACCACCACCCCTTCGAGATACCCACAACACACGCGCCACGAGGCGG
GGAGATCTCCTGTTGACAGCTTGAGCAGCTGTAGCAGTTCGTACGACGGGAGCGACCGAGAGGATCACCGGAACG
AATTCCACTCCCCATTGGACTCACCAGACCTTCGCCGGACGAAAGGGAAGTCCCTCAGTCAAGCGCATGCGAC
TTTCTGAAGGATGGGCAACATGATCAGATTATTACTTACTAGTTTTTTTTTTTTTTTCTTGCAGTGTGTGTGTGTC
TATACCTTAATGGGGAAGGGGGGTCGATATGCATTATATGTGCCGTGTGTGGAAAAAAGTCAAGTACTCT
GTTTTGTAAAAGTACTTTTAAATTGCCTCAGTGATACAGTATAAAGATAAACAGAAATGCTGAGATAAGCTTAGC
ACTTGAGTTGTACAACAGAACACTTGTACAAAATAGATTTTAAAGGCTAACTTCTTTTCACTGTTGTGCTCCTTTG
CAAAATGTATGTTACAATAGATAGTGTATGTTGCAGGTTCAACGTTATTTACATGTAAATAGACAAAAGGAAAC
ATTTGCCAAAAGCGGCAGATCTTTACTGAAAGAGAGAGCAGCTGTTATGCAACATATAGAAAAATGTATAGATGC
TTGGACAGACCCGTAATGGGTGGCCATTGGTAAATGTTAGGAACACACCAGGTCACCTGACATCCCAAGAATGC
TCACAAACCTGCAGGCATATCATTGGCGTATGGCACTCATTAAAAAGGATCAGAGACCATTAAAAGAGGACCATA
CCTATTAAAAAAAATGTGGAGTTGGAGGGCTAACATATTTAATTAAATAAATAAATCTGGGTCTGCATCT
CTTATTAAATAAAAAATATAAAAAATATGTACATTACATTTTGCTTATTTTCATATAAAAGGTAAGACAGAGTTTGC
AAAGCATTTGTGGCTTTTTGTAGTTTACTTAAGCCAAAATGTGTTTTTTCCCTTGATAGCTTCGCTAATATTT
TAAACAGTCCCTGTAAAAAACCAAAAAGGACTTTTTGTATAGAAAGCACTACCCTAAGCCATGAAGAACTCCATGC
TTTGCTAACCAAGATAACTGTTTTCTTTGTAGAAGTTTTGTTTTTGAAATGTGTATTTCTAATTATATAAAAT
ATTAAGAACTTTTTAAAAAATCTGTGAAATTAACATGCTTGTGTATAGCTTTCTAATATATATAATATTATGGT
AATAGCAGAAGTTTTGTTATCTTAATAGCGGGAGGGGGGTATATTTGTGCAGTTGCACATTTGAGTAACTATTTT
CTTTCTGTTTTCTTTTACTCTGCTTACATTTTATAAGTTTAAAGGTCAGCTGTCAAAAGGATAACCTGTGGGGTTA
GAACATATCACATTGCAACACCCTAAATTGTTTTTAATACATTAGCAATCTATTGGGTCAACTGACATCCATTGT
ATATACTAGTTTTCTTTCATGCTATTTTTATTTTTGTTTTTGCATTTTTATCAAATGCAGGGCCCCCTTTCTGATCT
CACCATTTACCATGCATCTTGAATTACAGTAAGTGCATATCCTAACTTGCCCATATTCTAAATCATCTGTTTGG
TTTTTCAGCCTAGAATTTGATACGCTTTTTAGAAATATGCCAGAAATAGAAAAGCTATGTTGGGGCACATGTCTTG
CAAATATGGCCCTAGAAACAAGTGATATGGAATTTACTTGGTGAATAAGTTATAAATTTCCACAGAAGAAAAATG
TGAAAGACTGGGTGCTAGACAAGAAGGAAGCAGGTAAAGGGATAGTTGCTTTGTATCCGTTTTTAATTATTTTA
ACTGACCCCTTGACAATCTTGTGAGCAATATAGGACTGTTGAACAATCCCGGTGTGTGAGGACCCCCAAATGTCAC
TTCTGCATAAAGCATGTATGTATCTATTTTTTCTTCAATAAAGAGATTTAATAGCCATTTCAAGAAATCCCAT

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FIGURE 1646B

AAGAACCTCTCTATGTCCCTTTTTTTAATTTAAAAAATGACTCTTGTCTAATATTCGTCTATAAGGGATTAATT
TTCAGACCCTTTAATAAGTGAGTGCCATAAGAAAGTCAATATATATTGTTTAAAAGATATTTTCAGTCTAGGAAAG
ATTTTCCTTCTCTTGGAATGTGAAGATCTGTGATTTCATCTCCAATCATATGCATTGACATACACAGCAAAGAAG
ATATAGGCAGTAATATCAACACTGCTATATCATGTGTAGGACATTTCTTATCCATTTTTTCTCTTTTACTTGCTAT
AGTTGCTATGTGTTTCTCATTGTAAAAGGCTGCCGCTGGGTGGCAGAAGCCAAGAGACCTTATTAAGTGGCTAT
ATTTTCTTAACTTGATCTGAAATCCACAATTAGACCACAATGCACCTTTGGTTGTATCCATAAAGGATGCTAGC
CTGCCCTTGTACTAATGTTTTATATATT

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FIGURE 1647

MGRKKIQITRIMDERNRQVTFTKRKFGLMKKAYELSVLCDCEIALIIFNSTNKLQYASTDMDKVLLKYTEYNEP
HESRTNSDIVETLRKKGLNGCDSPDPDADDSVGHSPESSEDKYRKINEDIDLMISRQRLCAVPPPNFEMPVSIPVS
SHNSLVYSNPVSSLGNPNLLPLAHPSLQRNSMSPGVTHRPPSAGNTGGLMGDLTSGAGTSAGNGYGNPRNSPGL
LVSPGNLNKNMQAKSPPPMNLGMNNRKPDRLRVLIPPGSKNTMPVSSEDVDLLLNQRINNSQSAQSLATPVVSVAT
PTLPGQGMGGYPSAISTTYGTEYSLSSADLSSLSGFNTASALHLGSVTGWQQQHLHNMPPSALSQLGACTSTHLS
QSSNLSLPSTQSLNIKSEPVSPPRDRTTTPSRYPQHTRHEAGRSPVDSLSSCSSSYDGSDREDHRNEFHSPIGLT
RSPDERESPSVKRMRLSEGWAT

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FIGURE 1648

ATGCAGGCCCGACAAGTAATGCTAGCAGTGGCACTTTATAGCCACGGCTGCACAGAAATCAGAACATTTTCTTTA
GATTTTTTTGAAGAAGCGCATCTTTCAGATTCACACAAGCAGGATGACGCTGGCTGATGATGTAACCCTGGACGAC
CTGATCATGGCTAAAGATGACCTCTCTGGTGCTGACATCAAGGCAATCTGTACAGAAGCTGGTCTGATGGCCTTA
AGAGAACGTAGAATGAAAGTAACAAATGAAGACTACATTGACTTTTCTAAAATAGAAATCAGGGAAGGTTAA

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FIGURE 1649

MQARQVMLAVALYSHGCTEIRTFSLDFLKKRIFQIHTSRMTLADDVTLDDLIMAKDDL
SGADIKAICTEAGLMAL
RERRMKVTNEDYIDFSKIEIREG

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FIGURE 1650

TTTCCTCTTTCTCTAAGAGTCTCTCTCTCCCTTTCCCTCTCTCTCCCCCAATCTGTCTTTCTAGCATGTTGCCC
TTTTTCAACCACATTTGTGTTTCAGGTGTAGAGAGGAGAGAGAGTGAACAGGGAGCGGGGCTTTTGTCTGTTGGT
CTCCCTGGACTGAAGAGAGGGGAGAATAGAAGCCCAAGACTAAGATTCTCAAAATGTTTATTACCCAGAACTCTT
TGTCTGGGTCAAGAACCATTTCCAAACAAGGACATGGAGGGAAGGCTTCCTAAGGGAAGACTTCCTGTCCC
AAAGGAAGTGAACCGCAAGAAGAACGATGAGACAAACGCTGCCTCCCTGACTCCACTGGGCAGCAGTGAACCTCCG
CTCCCAAGAATCAGTTACCTCCACTTTTTTAAATCGTAACACCTCCATTTGTATTACATATGGTGTATGGGTAT
TGATGAGGTCATGGTATCATATATGGGATTTTTTCTGTGTAAATCATCAAGTATAAGAAGAACTATGGGACTC
TGAGCCTTGCTTTAGAGAATTTACAGTGGACAAATAGGTGTCATCAAACAGTTTTTAATCATTCTGACTCAAGT
GAAAACGCTCAGAATTTACACTGTGAATCCACGTTTACAACCCCTTACAGGTGGGCCTTCAGGCCTGGTTCGCTA
CAACAATGTCTTCCACAACCTCAAACCTCCACCGCGCTCACACAACCGGTCCACTCCTGCCTTTTCACTCACACAG
CTCCCGACTGCTTCTTGAGAGGCTGAGAGTCCCCCCCCCACCTTTTTTTTTTCAATTTAGATGTAACAAACCTAG
TAGTTTATGTTTCATCAATTGTCTGTATATCTCTATATTTTATCCATGTACTCTTTTGATGTATAGAAGTAGTTTG
AAACTCATTGTTTCCCTTGTGGTAAGTGACCGAGATGCTGCCACAGGACCTGAGACACTGATGAATGGTGTATTT
TGGACTTTCAACATGCTCCTTGGCGAGGTAGCTCTGATGGAGTTATTTTTTATTTCCATGTTCTAAGAAGGTGTT
GGTACTCTGTTTCCCTGAATGTTGTTCTCTAGACTGGATTGACTTGTTTTTCTTGTGTCTTCAGTGTGGCTTTCT
TCCTCAGTGTTGTAGGTTGAGCGAATGCTACCAGAGTGTGAGAGACCATTGTCTCGTTGGCTGGCGCTCACGGAC
ATGCAGTCACGGTAGCGGGAGCAATCACAAAACGTAAATTTACTTACCAAATCTCTTCCCTTTCCGTAGCCTCGCC
TGCCTGACTTAGAGAAAGAAAAGCAATAATTTACAGGCATTTTGAGGTGTCTCTTTGGGTTCTTTCTGTTTGAA
AGGATATTTGTGCAAAAAAAGAGCAAAACCGTTTTAAATAAACTCCCCCTGGAAAAAACCACAAACACTGGCAT
CTGAGTAGGAATATGAAAATGACACCTTTTCCAAATATTAATTTGGAACAAGGTCTACAAAATCATGATACTT
TTTTAAAAGGCAGAGCATTCTTTTTTCGGCAATTTTGATAAGCAAGGTGTAGATTTACATTTTGTCCCTTGCTCC
CAACGAAATGGATAAAACAAAAATAAATTACCATCTACTCATGGAATGTTGTTGTGTTAGCCAGTCTGAAAGCCCA
CCTTAATTTTTATATAACTGTCTTTAGCTCTTCTTTTGACAGGGCAGGCCTTGTTCTGAACTGTTTCGCTTCTGA
CTGTTAAACACCGATGACGCATGCACTGCACTTCTTCGTTTTCTTCTTGCTCCCCATTGGCCTGAGTTTCTTGT
GCATTACTCCTCTCCCTCCTTCGTTAGAAATAGGTATATCAGCTGTGTAAATAGAGCAAGAAAACAGTATTCTGCA
TCTGTGGCATTATGTAGAGTTGCAGTTGTGTACTGCTGAAAATGCAGGCTTTTGTAACAGTGTGATCTTTACTG
ATGCACTCATGACAAGTACCCAATGTATTTTAGCTATTTTAGTAGTATTTGTTCAATAAATACGCAAGCTGTAAG
GTAAGTGTCTG

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FIGURE 1651

MVYYPELFVWVSQEPFPNKDMEGRLPKGRLPVPKEVNRKKNDETNAASLTPLGSSELRSPRISYLFHF

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FIGURE 1652

TTTTGGCTCTCTGACCAGCACCATGGCAGTTGGCAAGAACAAGTGCCTTACGAAAGGCGGCAAAAAGGGAGCCAA
GAAGAAAGTGGTTGATCAATTTTCTAAGAAAGATTGGTATGATGTGAAAGCATCTGCTATGTTTCAGTATAAGAAA
TATTGGAAAGACGCTCGTCACCAGGACCCAAGGAACCAAAATTGCATCTGATGGTCTCAAGGGTCGTGTGTTTGA
AGTGAGTCTTGCTGATTTGCAGAATGATGAAGTTGCATTTAGAAAATTCAAGCTGATTACTGAAGATGTTTCAGGG
CAAAAAGTGCCTGAGCAACTTCCATGGCATGGATCTTACCCGTGATAAAATGTGTTCCATGGTCAAAAATGGCA
GACAATGATTGAAGCTCATGTTGATGTCAGGACTACCGATGGTTACTTGCTTCATCTGTTCTGTGTTGGTTTTAC
TAAAAACGCAACAATCAGATACGGAAGACCTCTTATGCTCAGCACCAACAGGTCCGCCAAATCCGGAAGAAGAT
GATGGAAATCATGACCCAGAGGTGCAGACAAATGACTTGAAAGACCCAGAGGTGCAGACAAATTACAGTGGTCA
ATAAATTGATTCCAGACAGCATTGGAAGACATAGAAAAGGCTTGCCAACCTATTTATCCTCTCCATGATGTCT
TCGTTAGAAAAGTAAAAATGCTGAAGAAGCCCAAGTTTGAATTGGGAAAGCTCATGGAGCTTCATGGTGAAGGCA
GTAGTTCTGGAAGAGCCACTGGGGATGAGACAAGTGCTAAAGTTGAACGAGCTGATGGATATGAACCACCAGTCC
AAGAATCTGTTTAAAGTTCAGACTTCAAATAGTGGCAAATAAAAAGTGCTATTTG

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FIGURE 1653

MAVGKNKCLTKGGKKGAKKKVVDQFSKKDWYDVKASAMFSIRNIGKTLVTRTQGKIASDGLKGRVFEVSLADLQ
NDEVAFRKFKLITEDVQGNCLSNFHGMDLTRDKMCSMVKKWQTMIEAHVDVRTTDGYLLHLFCVGF TKKRNNQI
RKTSYAQQVRQIRKKMMEIMTPEVQTNDLKDPEVQTNYSQ

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FIGURE 1654

GCAGCCAGAAAGCTCTGGAGCATCAGGGAGACTCCAACTTAAGGCAACAGCATGGGTGAATAAGGGCTTCCTGTG
GACTGGCAATGAGAGGCAAAACCTGGTGCTTGAGCACTGGCCCCTAAGGCAGGCCTTACAGATCTCTTACACTCG
TGGTGGGAAGAGTTTAGTGTGAAACTGGGGTGGAATTGGGTGTCCACGTATGTTCCCTTTTGCCTTACTATATGT
TCTGTCAGTTTCTTTCAGGAAAATCTTCATCTTACAACCTTGTAGGGCTGGTGTTAACTTACGACTTCACTAACTG
TGACTTTGAGAAGATTAAAGCAGCCTATCTCAGTACTATTTCTAAAGACCTGATTACATATATGAGTGGGACCAA
AAGTACCGAGTTCAACAACACCGTCTCTTGTAGCAATCGGCCACATTGCCTTACTGAAATCCAGAGCCTAACCTT
CAATCCCACCGCCGGCTGCGCGTCGCTCGCCAAAGAAATGTTGCCATGAAAATAAGGCTGCCTTAGCTATCTG
GTGCCCAGGCTATTCGGAAACTCAGATAAATGCTACTCAGGCAATGAAGAAGAGGAGAAAAAGGAAAGTCACAAC
CAATAAATGTCTGGAACAAGTGTACAATTACAAGGATTGTGGCGTCGCTTCAATCGACCTTTACTGAAACAACA
GTAAACCATCTTTATTATGGTCATATTTACAGCACCAAAATAAATCATCTTTATTAAGT

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FIGURE 1655

CCGCAGCCCATCGGCATGGCTCAAGAGTTTGTGAACTGCAAAATCCAGCCTGGGAAGGTGGTTGTGTTCAATCAAG
CCCACCTGCCCCTACTGCAGGAGGGCCCAAGAGATCCTCAGTCAATTGCCCATCAAACAAGGGCTTCTGGAATTT
GTCGATATCACAGCCACCAACCACACTAACGAGATTCAAGATTATTTGCAACAGCTCACGGGAGCAAGAACGGTG
CCTCGAGTCCTTTATTGGTAAAGATTGTATAGGCGGATGCAGTGATCTAGTCTCTTTGCAACAGAGTGGGGAAGTG
CTGACGCGGCTAAAGCAGATTGGAGCTCTGCAGTAACCACAGAACAGGCCCCATGCTGACGTCCCTCCTCAAGAG
CTGGATGGCATTGCAAATGATGACAGCACTTCTGGTGGATGAATTTGGGGGCACAAACAGCTTTTTTCCTCTTTT
GGCTCAGTATTTAAAAGTGGACCAACTTGCTCTTAATCACAGGGCCAAGAAGGTTGACGGGCCATCTTGGTTTTT
TTCTGGATGTGCTCTTTGGTTTTTCAGAAGACTGTGACAAGTTCTGGCCCAGGATTCGCTCACTGACCCTCAATTG
TCCTCTTTGGCATGCGTTTCTTACTGTTCTCCATGTGTGCGCATGTCTCTACCTCTAAGCCAGTGTTTTTCAACT
ATGTTTATCCAGACTCCTTCTCCAATGATGAATCCACAGTTGGTTATCTGCTACTGCCCATTAGCTAAAATCA
TTTTGCTGCTTGACTTTATGGAGTTTGTATTATGAAATCAGTGGGTATTTTGAATGTGTTCTTTCTAACTACATG
CATCTCTCCACTCAACTCCACCCCATCCCATCCACCTTGAAAATCACTGCTCTGAACCAGTGTTCTCCACCTTG
TCCTCCACAGATCTCATAGGAAATGTTCAACAATTCTGTGAAAGGTCACAGGACCCAATTGGAGAAATCATATGA
AAAGCATAGTTGGTCTTGGTGTCTATGGATCAGAGGCACAAGTGCAGAGGCTGTGGTTCATGCGGAACACTCTGT
TATTTAAGATGGCTATCCAGATAATCCTGAACACTGTGTATTTATTTTATTTAGACTACCAGCAAAGATTAAAGC
ATGAAATGTAAACATCTGATAAACTTACAGCCCCCTACACCAAGAGTGTATCTGTGAAAGAGCTCCTACACTT
TGAAACTTAAGAATCCCTTATCATGAAGTTTGCTGTCTAGAAATTGTAAGATTGTTAATTCCTTCAATCTCT
AGTGACAACACTTAATTTCTTTTCTAATAAAAAAACCTATAGATGATTCAGTG

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FIGURE 1656

ATCTTGGCGAGGCTGCGGTGTCTGCTGCTACTCTCCGAGCTTCGCAATGCCGCCCAAGGACGACGAGAAGAAGGA
CGCTGGAAAGTCAGCCAAGAAAGACAAAGACCCAGTGAACAAATCCGGGGGCAAGGCCAAAAAGAAGAAGTGGTC
CAAAGGCAAAGTTCGGGACAAGCTCAATAACTTAGTCTTGTTTGACAAAGCTACCTATGACAAACTCTGTAAGGA
AGTTCCCAACTATAAACTTATAACCCAGCTGTGGTCTCTGAGAGACTGAAGATTCGAGGCTCCCTGGCCAGGGC
AGCCCTTCAGGCAAAGCACAGAGCTCAAGTAATTTACACCAGAAATACCAAGGGTGGAGATGCTCCAGCTGCTGG
TGAAGATGCATGAATAGGTCCAACCAGCTGTACATTTGGAAAAATAAACTTTATTAAATC

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FIGURE 1657

MPPKDDEKKDAGKSAKKDKDPV NKSGGKAKKKKWSKGKVRDKLNNLVLFDKATYDKLCKEVPNYKLITPAVVSER
LKIRGSLARAALQAKHRAQVIYTRNTKGGDAPAAGEDA

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FIGURE 1658

GACTGTACAATTTGTTCAAGGAATTTTGTAGAAAAATACGATCCTACGATAGAAGATTCTTATAGAAAGCAAGT
TGAAGTAGATGCACAACAGTGTATGCTTGAAATCTTGGATACTGCAGGAACGGAGCAATTTACAGCAATGAGGGA
TTTATACATGAAAAATGGACAAGGATTTGCATTAGTTTATTCCATCACAGCACAGTCCACATTTAACGATTTACA
AGACCTGAGAGAACAGATTCTTCGAGTTAAAGACACTGATGATGTTCCAATGATTCTTGTGGTAATAAGTGTGA
CTTGGAAGATGAAAGAGTTGTAGGGAAGGAACAAGGTCAAAATCTAGCAAGACAATGGAACAACCTGTGCATTCTT
AGAATCTTCTGCAAAATCAAAAATAAATGTTAATGAGATCTTTATGACCTAGTGCGGCAAATTAACAGAAAAAC
TCCAGTGCCCTGGGAAGGCTCGCAAAAAGTCATCATGTGCAGCTGCTTTAATATACTAAATGCATTGTAGCTCTGAG
CCAGGTCTGAAGAACTGTTGCCCAATTCAACAGTGCCAGCATTCCAACTTTGTAAACCTACCAACATCTTAAAT
GGACTTTCTGTGGTGGTACCCTTTAAGAGGCGGATGAAAGCTACTATATCAGTTTGCACATTCTAATCACTTTC
CAGTATCACAGAGAGATTTTACTTTATATAATAGTCCTAGAGTTTGCAGCTGGTAAAACAGAGGCTACATCCA
GTATTACTGCTAAGAGACATTCTTCATCCACCAATGTTGTACATGTATGAAAATGGTGTACTGTATACTTTAACA
TGCCCCATACTTTGTATTGGAGAGTACAATAATGTAAATCCTAAAAGCACCCTATTTTAGCATAATAAAGAAA
GTCCAAAGAGCTCCTATATAGACTACTCCAGATAACTTCGCTTCTTTGATACTTGTAGCTTATTGTAATTTTTTT
TAAGAAATTCAGGTCATTATTATTGTACAAAATAAGCGCTTTGATTAAACACAGCTATATAGTTTTTTTAATTTT
TAAAAAACCTGTGGAGACGGTGATCTTGTCTTTAAAAACATGATAGTCCTTTCAGTATAATGTCTTAGATTAAAGA
CGTTGCCTTTAATATCTGTTGGGAAGGAAATGTCCAGACTTTTCAAATCTCTTATTATATGTTTCCTTTTTTTGT
TTACATAGGGAACAATGTTTATAGTCGIGTGTACAGTGGGGTCTACAACAAGAAGTGTATATTTTCAAACAATT
TTTTAATGATTTAACAATTTTTGTAAATCATTTTCAGGCTTCTGCAGCTGTAGATTCTCACTGTGAATCCCTTGC
TTGCTCATGCATAAGTGTATTTGCAATACCAAAATACAGGTTTAGTATTTTTGCCTGTTAGTGATTGTTTCACA
TGTGTAACGTTTTGGTTGAGATGTTAAATGGTGGACGAGTACTGTGGATGTGAATGTGGGAAGTAATTTTAATCA
TATGTAATTGGTCACAAGGCCTAATTTGCAGTAACTATTGCTGTTTTATTTAACAATGCCTTGTTGCTTTGTATG
CATTAATGTTTGGATGTAAAGATTGTGTGTCTATCCAACAGGGAGCCACAGTATTTAAATTGACCAACCTAATGT
TACAACTACTTTGAGGTGGCCAAATGTAAACTAAAAGCCTTAATTAAAGTGGTGCAATTTTGT

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FIGURE 1659

MLEILD TAGTEQFTAMRDLYMKNQG FALVYSITAQSTFNDLQDLREQILRVKDTDDVPMILVG NKCDLED ERVV
GKEQGQNLARQWNNCAFLESSAKSKINVNEIFYDLVRQINRKTPVPGKARKKSSCQLL

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FIGURE 1660

GCTCCTTCTAGGATCTCTGCCTGGTTTCGGCCCCGCTGCCTCCACTCCTGCCTCCACCATGTCCATTAGGGGACCC
AGAAGTCCTACAAGGTGTCCACCTCTGGCCCCGGGCCTTCAGCAGCCACTCCTACACAAGTGGGCCCCGGTGCCC
ACATCAGCTCCTCAAGCTTCTCCCAAGTGGGCAGCAGCTGCTTTTCGGGGTGGCCTGGGCGGCGGCTGTGGTGGGG
CCAGCGGCATGGGAGGCATCACCGCGGTACAGTCAACCAGAGCCTGCTGAGCCCCCTTGCTCCTGGAGGTGGACC
CCGACATCCAGGCTGTGTGCACCCAGGAGAAGGAGCAGATCAAGACCCTCAACAACAAGTTTGCTCCTTCATAG
ACAAGGTACGGTTCCTGGAGCAGCAGAACAAGATGTGGAGACCAAGTGGAGCCTCCTGCAGCAGCAGAAGACGG
CCGGGAGCAACATGGACAACATGTTCAAGAGCTACATCAACAACCTTAGGCGGCAGCTGGAGACTCTGGGCTAGG
AGAACTGAAGCTGGAGGCGGAGCTTGGCAACATGTAGGGGCTGGTGGAGGACTTCAAGAACAAGTATGAGGATG
AGATCAATAAGCGTGCAGAGATGGAGAATGAATTTGTCCTCATCAAGAAGGATTGTGGATGAAGCTTACATTAAC
AAGGTAGAGCTGGAGTCTCGCCTGGAAGGGCTGACTGATGAGATCAACTTCCTCAGGCAGCTGTATGAAGAGGAG
ATCCGGGAGCTGCAGTCTGATCTCAGACACATCTGTGGTGCTGTCCATGGACAACAGCCGCTCCCTGGACATG
AACAGCGTCATCGCTGAGGTCAAGGCACAGTACGAGGAGATCGCCAACCGCAGCCAGGCCGAGGCTGAGAGCATG
TACCAGATCAAGGATGAGGAGCTGCAGAGTCTGGCTGGGAAGCATGGGGATAACCTGCGGTGCACAAAGACTAAG
ATCTCCGAGATGAACCGGAACATCAGCCGGCTCCAGGCTGAGAATGAGGGCCTCAAAGGCCAGAGGGCTTTCTG
GAGGCCGCCATTGCAGATGCCGAGCAGTGTGGAGAGCTGGCCATTAAGGATGCTAACGCCAAGTTGTCGAGCTGG
AGGCCGCCCTGCAGCGGGCCAAGCAGGACATGGCGTGGCAGCTGCGTGAGTACCAGGAGCTGATGAACGTCAGGC
TGGCCCTGGACATCGAGATCGCCACCTACAAGAAGCTGCTGGAGGGCGAGGAGAGCCGGCTGGAGTCTGGGATGC
AGAACATGAGTATTATACGAAGACCACCAGCGGCTATGCAAGTGGTCTGAGCTCGGCCTGTGGGGGCCCTCACAA
GCCCCGGCCTCAGCTACGGCCTGGGCGCCAGCTCCTTCAGCCGCACCAGCTACTCCAGGGCCGTGGTTGTGAAGA
TCGAGACACGTGATGGGAAGCTGGTGTCCGAGTCTCTGACGTCCTGCCCAAGTGAACAGCTGTGGCAGCCCCCTC
CCAGCCTACCCCTCCTGCGCTGCCCCAGAGCCTGGGAGGGAGGTCACTATGCAGGGTAGCACTGGGAACAGGAGA
CCCACCTGAGGCTCAGCCCTAGGCCTCAGTCCACCCGCGGGGAGTTTACTGCCTGGGGACCCCCCTTTGCCCA
TGCCTCCAGCTACAAAACAATTCAGTTGCTTTTTTTTTTTTTTTTTTGGTCCAAAATAAAACCTCAGCTAGCTCTGC

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FIGURE 1661

MRMRSISVQRWRMNLSSSRIVDEAYINKVELESRLLEGLTDEINFLRQLYEEEIRELQSWISDTSVVLMDNSRS
LDMNSVIAEVKAQYEEIANRSQAEAESMYQIKDEELQSLAGKHGDNLRCTKTKISEMNRNISRLQAENEGLKGQR
AFLEAAIADAEQCGELAIKDANAKLSSWRPPCSGPSRTWRGSCVSTRS

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FIGURE 1662

AGTGGGCAGCAGCTGCTTTCGGGGTGGCCTGGGCGGCGGCTGTGGTGGGGCCAGCGGCATGGGAGGCATCACCGC
GGTCACAGTCAACCAGAGCCTGCTGAGCCCCCTTGTCTGGAGGTGGACCCCGACATCCAGGCTGTGTGCACCCA
GGAGAAGGAGCAGATCAAGACCCTCAACAACAAGTTGCCTCCTTCATAGACAAGGTACGGTTCCTGGAGCAGCA
GAACAAGATGCTGGAGACCAAGTGGAGCCTCCTGCAGCAGCAGAAGACGGCCGGGAGCAACATGGACAACATGTT
CAAGAGCTACATCAACAACCTTAGGCGGCAGCTGGAGACTCTGGGCTAGGAGAACTGAAGCTGGAGGCGGAGCT
TGGCAACATGTAGGGGCTGGTGGCTGGGATGCAGAACATGAGTATTCATACGAAGACCACCAGCGGCTATGCAAG
TGGTCTGAGCTCGGCCTGTGGGGGCCTCACAAGCCCCGGCCTCAGCTACGGCCTGGGCGCCAGCTCCTTCAGCCG
CACCAGCTACTCCAGGGCCGTGGTTGTGAAGATCGAGACACGTGATGGGAAGCTGGTGTCCGAGTCCTCTGACGT
CCTGCCCCAAGTGAACAGCTG

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FIGURE 1663

CTGGGCGGCGGCTGTGGTGGGGCCAGCGGCATGGGAGGCATACCGCGGTCACAGTCAACCAGAGCCTGCTGAGC
CCCCTTGTCCTGGAGGTGGACCCCGACATCCAGGCTGTGTGCACCCAGGAGAAGGAGCAGATCAAGACCCTCAAC
AACAAGTTTGCCTCCTTCATAGACAAGGTACGGTTCTGAGCAGCAGACAAGATGCTGGAGACCAAGTGGAGC
CTCCTGCAGCAGCAGAAGACGGCCGGGAGCAACATGGACAACATGTTCAAGAGCTACATCAACAACCTTAGGCGG
CAGCTGGAGACTCTGGGCTAGGAGAACTGAAGCTGGAGGCGGAGCTTGGCAACATGTAGGGGCTGGTGGAGGAC
TTCAAGAACAAGTATGAGGATGAGATCAATAAGCGTGCAGAGATGGAGAATGAATTTGTCCTCATCAAGAAGGAT
TGTGGATGAAGCTTACATTAACAAGGTAGAGCTGGAGTCTCGCCTGGAAGGGCTGACTGATGAGATCAACTTCCT
CAGGCAGCTGTATGAAGAGGAGATCCGGGAGCTGCAGTCCTGGATCTCAGACACATCATCGCTGAGGTCAAGGCA
CAGTACGAGGAGATCGCCAACCGCAGCCAGGCCGAGGCTGAGAGCATGTACCAGATCAAGGATGAGGAGCTGCAG
AGTCTGGCTGGGAAGCATGGGGAT

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FIGURE 1664

GCGGCCGCGGCCGTGAGCCTGCCCCAACTCGCCCTCAGCCGGCTGGCCGGCGCGGCC**ATG**GAGGTCTACATCCC
GTCCTTTCGCTATGAAGAGAGCGACCTGGAGCGGGGATACACGGTGTTTAAGATAGAAGTGCTAATGAATGGAAG
AAAACATTTTGTGAAAAGAGATACAGCGAATTTTCATGCTTTGCACAAAAAGCTTAAGAAATGTATAAAAACTCC
AGAAATCCCTTCTAAACATGTTAGGAACTGGGTCCCCAAAGTCTTGGAACAGCGACGACAAGGCTTGGAACATA
CTTACAGGCTGTCATTTTAGAAAATGAAGAACTTCCCAAAGTGTTCCTTGATTTCCTAAATGTGCGACACTTGCC
CTCTCTACCAAAGGCAGAAAGTTGTGGATCTTTTGATGAAACAGAGTCTGAAGAGTCAAGCAAAGTGTCCACCA
GCCTGTGCTGCTGTTCCCTCAGGGATCCATATGTCTTGCCCTGCAGCCAGCGATTTTCCAAATGTGGTTATTGAAGG
AGTCCTCCATGGGATATTTTACCCTCATCTACAGCCCAGG**TAG**AAATCCTACATGGCTAAAAGAAGCAGAAGCAA
GTTTCGAAGTCACAGTCAAGGAAATCAATACCTACCAATTTAACCTAAACGCTATGATATATAACAGCTCTAGCT
AGTGGTAAAGTGCACAGTCCCAGCTTAATTCAGGGCAGGGACATTTCCATTAGAATGGTGCTCTTAAAAATAGAA
ACTGAACCGGGGCGGTGGTCAGGCTAAGGCCAAGTGTTTAAGAAGTAGAGTGTAGCTGCCAGCGTAGAAACCCAT
GAAAAGGAGGCCACAGGAGATTCCCTGGGAGCACTGGGTGTAGCAAAACAAAGCCACTCTCTGCTTCAGTCGCACC
ATTTGCTAATTGAAAATCATATCCTGAATCATACTGAGACTGATCAACTTTGGTAGCTTTTTTGTTCAGATCTTA
TGACACACTACTCTTCTCACCGTGAGATTTTCTCAGCCAGTGATAGTACATTCTGAAATGCTGGCACCAGGAGAC
GGCCACAGACACACACTGCTAAATGTGAAGATGGAATAAACTGGAAATTAAATTATACTGACAATATTATGGCA
TTTTTAAGATCATGGCATTTTAAATTTACATTAGAGTGGAGTTGCATCATACTCAGGGGTTAGCTTCCAAGGTCAG
TACATAGGTAAATGGGCTATTAGGATGATCCTTGAAAGCCCTTTAGAAGGGTGCCATGTTGGAAACCTGTACAT
CACAACAAGTAGCTTTTCTCCTATGTTGGAAAAAAGACTGTTTCTTTGTTTGAAGACCAAGTGAAGTTGTTGG
TGTTTGTGTTAGGGGCCATTTTGTTAAAAAAGACACATAACTTTTAACACTAGAATCAGCCCGCAAGATGCT
TGCCCCGCTAGTGGCAGATGTGAAGTGAAGGAGTGAAGCGCCACCCAGCGGATGGACAGCACCCACCTGGGT
TTACTCAAGGGTGTGCATTCAATTTAGGTGGGATCGCCACAGGATTTTCATGTTATTTTCCTTACGGCTTCCTTTT
CACTGACCTCATTTGTTGAGTTAATGTAAGTTAAATGTGTCTATGATATAACTCCACTGTACATCATCCTTTGAG
TAGTAAAGGATAAAAGCATATATACTACCTATATGTATGTGCTGTATGTGGGCATTTTCATTGAGATCTAATTAAT
AGCTAGCCTATTTATGGTTATTCGTTTTAGTAAGTTCTGTGGGAGCAAGGTATTTAAATCAAACTAATAACTA
CATCATGGTTTTTATTAGGATCTAAATATTCAGGTTTTAAGCCTGCTGCAAACCTTTTAAATATTATGATAGAT
TCTGTACTACATGTGGGAAACAAGCAAGAATAAATAATCAAATGTTGTCAACCAAAGTAATAGTTGGGTATTG
GAGATTTTTTAAATGTTTTTATGTTATTAGCTATTTGGAGTTAAATAAAAACAGAACAAGGAAAAAAAAAAAA
AAAAAAAAAAAAA

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FIGURE 1665

MEVYIPSFYEEEDLERGYTVFKIEVLMNGRKHFFVEKRYSEFHALHKKLKKCIKTPEIPSKHVRNWWPKVLEQRR
QGLETYLQAVILENEELPKLFLDFLNVRHLP SLPKAESCGSFDETESEESSKL SHQPVLLFLRDPYVLP AASDFP
NVVIEGVLHGIFYPHLQPR

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FIGURE 1666

AGCTCGCGCAGTCGTTTCGGGTGAGCGAAGATGCGGCCGAGAGGGAACCTCCTCCGCTGGGGGACGGGAAGCCCA
CCGACTTTGAGGATCTGGAGGACGGAGAGGACCTGTTCCACCAGCACTGTCTCCACCCTAGAGTCAAGTCCATCAT
CTCCAGAACCAGCTAGTCTTCCTGCAGAAGATATTAGTGCAAACCTCCAATGGCCCAAAACCCACAGAAGTTGTAT
TAGATGATGACAGAGAAGATCTTTTTGCAGAAGCCACAGAAGAAGTTTCTTTGGACAGCCCTGAAAGGGAACCTA
TCCATCCTCGGAACCTTCTCCTGCAGTCACACCTGTCACTCCTACTACACTCATTGCTCCTAGAATTGAATCAA
AGAGTATGTCTGCTCCCGTGATCTTTGATAGATCCAGGGAAGAGATTGAAGAAGAAGCAAATGGAGACATTTTTG
ACATAGAAATTGGTGTATCAGATCCAGAAAAAGTTGGTGATGGCATGAATGCCTATATGGCATATAGAGTAACAA
CAAAGACATCTCTTTCCATGTTTCAGTAAGAGTGAATTTTCAGTGAAAAGAAGATTTCAGCGACTTTCTTGTTTTGC
ACAGCAAATTAGCAAGCAAATATTTACATGTTGGTTATATTGTGCCACCAGCTCCAGAAAAGAGTATAGTAGGGA
TGACCAAGGTCAAAGTGGGTAAAGAAGACTCATCATCCACTGAGTTTGTAGAAAAACGGAGAGCAGCTCTTGAAA
GGTATCTTCAAAGAACAGTAAACATCCAACCTTTACTACAGGATCCTGATTTAAGGCAGTTCTTGAAAGTTTCAG
AGCTGCCTAGAGCAGTTAATACACAGGCTCTGAGTGGAGCAGGAATATTGAGGATGGTGAACAAGGCTGCCGACG
CTGTCAACAAAATGACAATCAAGATGAATGAATCGGATGCATGGTTTGAAGAAAAGCAGCAGCAATTTGAGAATC
TGGATCAGCAACTTAGGAACTTCATGTCAAGTGTGAAGCCTTGGTCTGTATAGAAAAGAACTTTTCAGCCAACA
CAGCTGCCTTTTGCTAAAAGTGCTGCCATGTTAGGTAATTCTGAGGATCATACTGCTTTATCTAGAGCTTTGTCTC
AGCTTGACAGAGGTTGAGGAGAAGATAGACCAGTTACATCAAGAACAAGCTTTTGCTGACTTTTATATGTTTTAG
AACTACTTAGTGACTACATTTCGTCTTATTGCTGCAGTGAAAGGTGTGTTTGACCATCGAATGAAGTGCTGGCAGA
AATGGGAAGATGCTCAAATTACTTTGCTCAAAAAACGTGAAGCTGAAGCAAAAATGATGGTTGCTAACAAACCAG
ATAAAATACAGCAAGCTAAAAATGAAATAAGAGAGTGGGAGGCGAAAGTGCAACAAGGGGAAAGAGATTTTGAAC
AGATATCTAAAACGATTTCGAAAAGAAGTGGGAAGATTTGAGAAAGAACGAGTGAAGGATTTTAAAACCGTTATCA
TCAAGTACTTAGAATCACTAGTTCAAACACAACAACAGCTGATAAAATACTGGGAAGCATTCTACCTGAAGCCA
AAGCCATTGCCCTAGCAATAAGATTGTTGCCGTTAAGAAGACCTTGGATGTTGTTCCAGTTATGCTGGATTCCACA
GTGAAATCATTTAAAACCATCTAAATAAACCACTATATATTTTATGAATTACATGTGGTTTTATATACACACACA
CACACACACACACACACACACACTCTGACATTTTATTACAAGCTGCATGTCCTGACCCCTTTGAATTAAG
TGGACTGTGGCATGACATTCTGCAATACTTTGCTGAATTGAACACTATTGTGTCTTAAATACTTGCACTAAATAG
TGCACTGCAAGACCAGAAAATTTTACAATATTTTTCTTTACAATATGTTCTGTAGTATGTTTACCCTCTTTATG
AAGTGAATTACCAATGCTTTGAATAATGTTCACTTATACATTCTGTACAGAAATTACGATTTTGTGATTACAGT
AATAAAATGATATTCCTTGTG

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FIGURE 1667

MAAEREPPPLGDGKPTDFEDLEDGEDLFTSTVSTLESSPSSPEPASLPAEDISANSNGPKPTEVVLDLDDREDLFA
EATEEVSLDSPEREPILSSEPSPAVTPVTPPTTLIAPRIESKSMSAPVIFDRSREEIEEEEANGDIFDIEIGVSDPE
KVGDMNAYMAYRVTTKTSLSMFSKSEFSVKRRFSDFLGLHSLKASKYLHVGYIVPPAPEKSIVGMTKVKGKED
SSSTEFVEKRRALERYLQRTVKHPTLLQDPDLRQFLESSELPRAVNTQALSGAGILRMVNKAADAVNKMTIKMN
ESDAWFEEKQQQFENLDQQLRKLHVSVEALVCHRKELSANTAFAKSAAMLGNSDHTALSRALSQLAEEVEEKID
QLHQEQAFADFYMFSSELLSDYIRLIAAVKGVFDHRMKCWQKWEDAQITLLKKREAEAKMMVANKPDKIQQAKNEI
REWEAKVQQGERDFEQISKTIKKEVGRFEKERVKDFKTVIIKYLESLVQTQQQLIKYWEAFLPEAKAIA

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FIGURE 1668

AGCTCTCTGGACCTTGGAGCAGGCCTGCCGCCTTCATGTCCACTCTCCTCATCAATCAGCCCCAGTATGCGTGGC
TGAAAGAGCTGGGGCTCCGCGAGGAAAACGAGGGCGTGTATAATGGAAGCTGGGGAGGCCGGGGAGAGGTTATTA
CGACCTATTGCCCTGCTAACAACGAGCCAATAGCAAGAGTCCGACAGGCCAGTGTGGCAGACTATGAAGAACTG
TAAAGAAAGCAAGAGAAGCATGGAAAATCTGGGCAGATATTCTGTCTCCAAAACGAGGAGAAATAGTAAGACAGA
TTGGCGATGCCTTGCGGGGAGAAGATCCAAGTACTAGGAAGCTTGGTGTCTTTGGAGATGGGGAAAATCTTAGTGG
AAGGTGTGGGTGAAGTTCAGGAGTATGTGGATATCTGTGACTATGCTGTTGGTTTATCAAGGATGATTGGAGGAC
CTATCTTGCCCTTCTGAAAGATCTGGCCATGCACTGATTGAGCAGTGGAAATCCCGTAGGCCTGGTTGGAATCATCA
CGGCATTCAATTTCCCTGTGGCAGTGTATGGTTGGAACAACGCCATCGCCATGATCTGTGGAAATGTCTGCCTCT
GGAAAGGAGCTCCAACCACTTCCCTCATTAGTGTGGCTGTACAAAGATAATAGCCAAGGTTCTGGAGGACAACA
AGCTGCCTGGTGCATTTGTTTCCTTGACTTGTGGTGGAGCAGATATTGGCACAGCAATGGCCAAAGATGAACGAG
TGAACCTGCTGTCTTCACTGGGAGCACTCAGGTGGGAAAACAGGTGGGCCTGATGGTGCAGGAGAGGTTTGGGA
GAAGTCTGTTGGAACCTTGAGGAAAACAATGCCATTATTGCCTTTGAAGATGCAGACCTCAGCTTAGTTGTTCCAT
CAGCTCTCTTTCGCTGCTGTGGGAACAGCTGGCCAGAGGTGTACCACTGCGAGGCGACTGTTTATACATGAAAGCA
TCCATGATGAGGTTGTAAACAGACTTAAAAAGGCCTATGCACAGATCCGAGTTGGGAACCCATGGGACCCTAATG
TTCTCTATGGGCCACTCCACACCAAGCAGGCAGTGAGCATGTTTCTTGGAGCAGTGGAAGAAGCAAAGAAAGAAG
GTGGCACAGTGGTCTATGGGGGCAAGGTTATGGATCGCCCTGGAAATTATGTAGAACCGACAATTGTGACAGGTC
TTGGCCACGATGCGTCCATTGCACACACAGAGACTTTTGCTCCGATTCTCTATGTCTTTAAATTCAAGAATGAAG
AAGAGGTCTTTGCATGGAATAATGAAGTAAACAGGGACTTTCAAGTAGCATCTTTACCAAAGATCTGGGCAGAA
TCTTTCGCTGGCTTGGACCTAAAGGATCAGACTGTGGCATTGTAAATGTCAACATTCCAACAAGTGGGGCTGAGA
TTGGAGGTGCCTTTGGAGGAGAAAAGCACACTGGTGGTGGCAGGGAGTCTGGCAGTGATGCCTGGAAACAGTACA
TGAGAAGGTCTACTTGTACTATCAACTACAGTAAAGACCTTCCTCTGGCCCAAGGAATCAAGTTTCAGTAAAGGT
GTTTTAGATGAACATCCCTTAATTTGAGGTGTTCCAGCAGCTGTTTTTGGAGAAGACAAAAGAAAATTAAAGTTTT
CCCTGAATAAATGCATTATTATGACTGTGACAGTGACTAATCCCCCTATGACCCCAAAGCCCTGATTAAATCAAG
AGATTCTTTTTTTAAAAATCAAATAAAATTGTTACAACATAGCCATAGTTACT

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FIGURE 1669

ACTGGCTGCTCTGAAAAGCCATCTTTGCATTGTTCCCTCGTCCGCCCTCCTTGCTCGCGGCACCGCCTCCGCCACGC
GCCTCCTCCGCCGCCGCGGACTCCGGCAGCTTTATCGCCAGAGTCCCTGAACTCTCGCTTTCTTTTAAATCGCCT
GCATCGGATCACCGGCGTGCCCCACCATGTCAGACGCAGCCGTAGACACCAGCTCCGAAATCACCACCAAGGACT
TACAGGAGAAGAAGGAAGTTGTGGAAGAGGCAGAAAATGGAAGAGACGCCCCTGCTAACGGGAATGCTAATGAGG
AAAATGGGGAGCAGGAGGCTGACAATGAGGTAGATGAAGAAGAGGAAGAAGGTGGGGAGGAAGAGGAGGAGGAAG
AAGGTGATGGTGAGGAAGAGGATGGAGATGAAGATGAGGAAGCTGAGACAGCTACGGGCAAGCGGGCAGCTGAAG
ATGATGAGGATGACACGCGCTCTCCACCACCCAACCCAAACCATGAGAATTTGCAACAGGGGAGGAAAAAAGAAC
CAAAACTTCCAAGGCCCTGCTTTTTTTCTTAAAAGTACTTTAAAAAGGAAATTTGTTTGTATTTTT

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FIGURE 1670

GGGGGAACATGGCGGCTGCGGAGCCGGCGGTCCTTGCGCTCCCCAACAGCGGGCGCCGGGGGCGCGGGGGCGCCGT
CGGGCACAGTCCCGGTGCTCTTCTGTTTTCTCAGTCTTCGCGCGACCCTCGTCGGTGCCACACGGGGCGGGCTACG
AGCTGCTCATCCAGAAGTTCCTCAGCCTGTACGGCGACCAGATCGACATGCACCGCAAATTCGTGGTGCAGCTGT
TCGCCGAGGAGTGGGGCCAGTACGTGGACTTGCCCAAGGGCTTCGCGGTGAGCGAGCGCTGCAAGGTGCGCCTCG
TGCCGTTGCAGATCCAGCTCACTACCCTGGGAAATCTTACACCTTCAAGCACTGTGTTTTCTGCTGTGATATGC
AGGAAAGGTTTCAGACCAGCCATCAAGTATTTTGGGGATATTATTAGCGTGGGACAGAGATTGTTGCAAGGGGCCC
GGATTTTAGGAATTCCTGTTATTGTAAACAGAACAATACCCTAAAGGTCTTGGGAGCACGGTTCAAGAAATTGATT
TAACAGGTGTAAAACTGGTACTTCCAAAGACCAAGTTTTCAATGGTATTACCAGAAGTAGAAGCGGCATTAGCAG
AGATTCGCGGAGTCAGGAGTGTTGTATTATTTGGAGTAGAACTCATGTGTGCATCCAACAACTGCCCTGGAGC
TAGTTGGCCGAGGAGTCGAGGTTACATTGTTGCTGATGCCACCTCATCAAGAAGCATGATGGACAGGATGTTTG
CCCTCGAGCGTCTCGCTCGAACC GGATCATAGTGACCACGAGTGAGGCTGTTCTGCTTCAGCTGGTAGCTGATA
AGGACCATCCAAAATTCAAGGAAATTCAGAACTCTAATTAAGGCGAGTGCTCCAGAGTCGGGTCTGCTTCCAAAG
TATAGGACATTTGAAGAACTGGTATGCTACTCACTGGTGAAGGACAGTCAGGTGAAGGACTGTAAGCCCACACAA
GCTCTTCTTATCTCTACTAGAATTAATGTTAAGTCAAAAACGGCTCCTTTTTTGCGCCTCCTAGTGAAACTTA
ACCAGCTAGACCATTTGAGTACCAGCATTTAGTTACAAACGTCAAAGGCTTCCGGTGCTGCTTACCTTCCTTTTT
TGTTAATGTGCTTTTATTTATTAATAAATTACAATGAAGATGCCTGTTTTGTCTCTACTGTGTACTCTGATCG
TATCTTTCCAAAGTGCAGACTCTTGTAAGTTTTCTTAAATTGTTCACTTTAAAGAAAATGACGTACCAACAATG
ATTTGGCTTTTATATTACTGTAAGATGTTATAATGTTAATGTGGATGTAGTGCTTTTACTTTACAGATTGATTGG
AATAAGATTATTGCATATGAATTTACCCACAGGACTCTGAATCATGTTACCCACTCCCCTCACAATGTTGTCCAC
TTAGTGAGTTGCATTGATCTATCCGTACCAATGATGTTGAATAATTACATATCTTTCTTGACTATACTGATTTT
TTATTTTGGTCACTATTACTAAATCTCTGTTAATATTCTCTCTTTTAACTGAAAAGGGATGGGATAGAAGGGTTT
GCAATGCCATATTATTGGTGGAGGGCTGTTTTAACATCTTTGAAGTATGGCTTGCTGAATATCTTTACCAACATC
TTGAATATATATTCTAGTGTCACAAAGATTTAGCAAAAAGATAAAGCTTGGGTGGAATATCATTTTAAATGTTT
ATGTTCTGTTCTATATTTTCTTCACCTACTCTCCAAATATTGTAATGCAAAAAGTCTCAGTAATGATTTGGTAGT
ATTAATTTTGTGGTCATTGTTTCTCTTCGATAAATTTATTTTCATTAAATACTTGTTAGAGGGTTTTGAAATGTT
TTTCAAATATGTGAAATGTGAACTGCTGTCTTTTATATTAAAGTAATTAAAGAAAA

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FIGURE 1671

GCTTGCCCGTCGGTCGCTAGCTCGCTCGGTGCGCGTCGTCCCGCTCC**ATGG**CGCTCTTCGTGCGGCTGCTGGCTC
TCGCCCTGGCTCTGGCCCTGGGCCCCGCCGCGACCCTGGCGGGTCCCGCCAAGTCGCCCTACCAGCTGGTGCTGC
AGCACAGCAGGCTCCGGGGCCGCCAGCACGGCCCCAACGTGTGTGCTGTGCAGAAGGTTATTGGCACTAATAGGA
AGTACTTCACCAACTGCAAGCAGTGGTACCAAAGGAAAATCTGTGGCAAATCAACAGTCATCAGCTACGAGTGCT
GTCCTGGATATGAAAAGGTCCCTGGGGAGAAGGGCTGTCCAGCAGCCCTACCACTCTCAAACCTTTACGAGACCC
TGGGAGTCGTTGGATCCACCACCACTCAGCTGTACACGGACCGCACGGAGAAGCTGAGGCCTGAGATGGAGGGGC
CCGGCAGCTTCACCATCTTCGCCCTAGCAACGAGGCCTGGGCCTCCTTGCCAGCTGAAGTGCTGGACTCCCTGG
TCAGCAATGTCAACATTGAGCTGCTCAATGCCCTCCGCTACCATATGGTGGGCAGGCGAGTCTTGACTGATGAGC
TGAAACACGGCATGACCCCTACCTCTATGTACCAGAATTCCAACATCCAGATCCACCCTATCCTAATGGGATTG
TAACTGTGAACTGTGCCCCGGCTCCTGAAAGCCGACCACCATGCAACCAACGGGGTGGTGCACCTCATCGATAAGG
TCATCTCCACCATCACCAACAACATCCAGCAGATCATTGAGATCGAGGACACCTTTGAGACCCCTTCGGGCTGCTG
TGGCTGCATCAGGGCTCAACACGATGCTTGAAGGTAACGGCCAGTACACGCTTTTGGCCCCGACCAATGAGGCCT
TCGAGAAGATCCCTAGTGAGACTTTGAACCGTATCCTGGGCGACCCAGAAGCCCTGAGAGACCTGCTGAACAACC
ACATCTTGAAGTCAGCTATGTGTGCTGAAGCCATCGTTGCGGGGCTGTCTGTAGAGACCCTGGAGGGCACGACAC
TGGAGGTGGGCTGCAGCGGGGACATGCTCACTATCAACGGGAAGGCGATCATCTCCAATAAAGACATCCTAGCCA
CCAACGGGGTGATCCACTACATTGATGAGCTACTCATCCAGACTCAGCCAAGACACTATTTGAATTGGCTGCAG
AGTCTGATGTGTCCACAGCCATTGACCTTTTCAGACAAGCCGGCCTCGGCAATCATCTCTCTGGAAGTGAGCGGT
TGACCTCCTGGCTCCCCTGAATTCTGTATTCAAAGATGGAACCCCTCCAATTGATGCCCATACAAGGAATTTGC
TTCGGAACCACATAATTAAGACCAGCTGGCCTCTAAGTATCTGTACCATGGACAGACCCTGGAACTCTGGGCG
GCAAAAACTGAGAGTTTTTTGTTTATCGTAATAGCCTCTGCATTGAGAACAGCTGCATCGCGGCCACGACAAGA
GGGGGAGGTACGGGACCCTGTTACGATGGACCGGGTGTGACCCCCCAATGGGGACTGTGATGGATGTCTCTGA
AGGGAGACAATCGCTTTAGCATGCTGGTAGCTGCCATCCAGTCTGCAGGACTGACGGAGACCCTCAACCGGAAG
GAGTCTACACAGTCTTTGCTCCCAAAATGAAGCCTTCCGAGCCCTGCCACCAAGAGAACGGAGCAGACTCTTGG
GAGATGCCAAGGAACCTTGCCAACATCCTGAAATACCACATTGGTGATGAAATCCTGGTTAGCGGAGGCATCGGGG
CCCTGGTGCGGCTAAAGTCTCTCCAAGGTGACAAGCTGGAAGTCAGCTTGAAAAACAATGTGGTGAGTGTCACAA
AGGAGCCTGTTGCCGAGCCTGACATCATGGCCACAAATGGCGTGGTCCATGTCATCACCAATGTTCTGCAGCCTC
CAGCCAACAGACCTCAGGAAAGAGGGGATGAACTTGACAGCTCTGCGCTTGAGATCTTCAAACAAGCATCAGCGT
TTTCCAGGGCTTCCCAGAGGTCTGTGCGACTAGCCCCGTCTATCAAAAGTTATTAGAGAGGATGAAGCAT**TAGC**
TTGAAGCACTACAGGAGGAATGCACCACGGCAGCTCTCCGCCAATTTCTCTCAGATTTCCACAGAGACTGTTTGA
ATGTTTTCAAACCAAGTATCACACTTTAATGTACATGGGCCGCACCATAATGAGATGTGAGCCTTGTGCATGTG
GGGGAGGAGGGAGAGAGATGTACTTTTTAAATCATGTTCCCCCTAAACATGGCTGTTAACCCACTGCATGCAGAA
ACTTGATGTCACTGCCTGACATTCACTTCCAGAGAGGACCTATCCCAAATGTGGAATTGACTGCCTATGCCAAG
TCCCTGGAAAAGGAGCTTCAGTATTGTGGGGCTCATAAAACATGAATCAAGCAATCCAGCCTCATGGGAAGTCTT
GGCACAGTTTTTTGTAAAGCCCTTGACAGCTGGAGAAATGGCATCATTATAAGCTATGAGTTGAAATGTTCTGTC
AAATGTGTCTCACATCTACACGTGGCTTGGAGGCTTTTATGGGGCCCTGTCCAGGTAGAAAAGAAATGGTATGTA
GAGCTTAGATTTCCCTATTGTGACAGAGCCATGGTGTGTTTGTAAATAATAAAACCAAGAAACATA

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FIGURE 1672

MALFVRLALALALALGPAATLAGPAKSPYQLVLQHSRLRGRQHGPNCVAVQKVIGTNRKYFTNCKQWYQRKICG
KSTVISYECCPGYEKVPGEKGCPAALPLSNLYETLGVVGSTTTQLYTDRTKLRPEMEGPGSFTIFAPSNEAWAS
LPAEVLDSLVSNNIELLNALRYHMGRRVLTDELKHGMLTSMYQNSNIQIHHPNGIVTVNCARLLKADHHAT
NGVVHLIDKVISTITNNIQIIEIEDTFETLRAAVAASGLNTMLEGNGQYTLLAPTNEAFEKIPSETLNRILGDP
EALRDLLNNHILKSAMCAEAIVAGLSVETLEGTTLLEVGCSDMLTINGKAIISNKDILATNGVIHYIDELLIPDS
AKTLFELAAESDVSTAIDLFRQAGLGNHLSGSERLTLLAPLNSVFKDGTPEIDAHRNLLRNHIIKDQLASKYLY
HGQLETTLGGKKLRVVFYRNSLCIENSCIAAHDKRGRYGTLTFTMDRVLTPEMGTVMMDVLKGDNRFSMLVAAIQSA
GLTETLNREGVYTVFAPTNEAFRALPPRERSRLLGDAKELANILKYHIGDEILVSGGIGALVRLKSLQGDKLEVS
LKNNVSVNKEPVAEPDIMATNGVVHVITNVLQPPANRPQERGDELADSALEIFKQASAFSRASQRSVRLAPVYQ
KLLERMKH

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FIGURE 1673

TCAGAGTCCGGCTCAGGCTCCGGCTGCGGCTCCAGCCCGCGATGCCCATTCCTGTACCCCTGCGCGGGCCTTCGC
CCTGGGGCTTCCGCCTGGTGGGCGGCGGGACTTCAGCGCGCCCTCACCATCTCACGGGTCCATGCTGGCAGCA
AGGCTGCATTGGCTGCCCTGTGCCAGGAGACCTGATCCAGGCCATCAATGGTGAGAGCACAGAGCTCATGACAC
ACCTGGAGGCACAGAACCGCATCAAGGGCTGCCACGATCACCTCACACTGTCTGTGAGCAGGCCTGAGGGCAGGA
GCTGGCCAGTGGCCCTGATGACAGCAAGGCTCAGGCACACAGGATCCACATCGATCCTGAGATCCAGGACGGCA
GCCAACAACCAGCAGGCGGCCCTCAGGCACCGGGACTGGGCCAGAAGATGGCAGACCAAGCCTGGGATCTCCAT
ATGGACAACCCCTCGCTTTCCAGTCCCTCACAATGGCAGCAGCGAGGCCACCCTGCCAGCCCAGATGAGCACCC
TGATGTGTCTCCACCCCCAGCGCTGACCCAGCCAGAGGCCTCCCGCGGAGCCGGGACTGCAGAGTCGACCTGG
GCTCCGAGGTGTACAGGATGCTGCGGGAGCCAGCCGAGCCCGTGGCCGCGGAGCCCCAAGCAGTCAGGCTCCTTCC
GCTACTTGCAGGGCATGCTAGAGGCCGGCGAGGGCGGGATTGGCCCGGGCCTGGCGGGCCCCGGAACCTCAAGC
CCACGGCCAGCAAGCTGGGCGCTCCGCTGAGCGGCCTGCAGGGGCTGCCCGAGTGCACGCGCTGCGGGCCACGGCA
TCGTGGGCACCATCGTCAAGGCACGGGACAAGCTCTACCATCCCGAGTGTTCATGTGCAGTGACTGCGGCCTGA
ACCTCAAGCAGCGTGGTTACTTCTTTCTGGACGAGCGGCTCTACTGTGAGAGCCACGCCAAGGCGCGCGTGAAGC
CGCCCAGGGGTACGACGTGGTGGCGGTGTACCCCAATGCCAAGGTGGAACCTCGTCTGAGCTGGGACCCTGCTCC
CACGCCTGCTTCTTAAGGTCCCTGCTCGGCCGGTGTAAATATGTTTTACCCCTGTCCCTCTAATAAAGCTCCTCTG
CTCCACCTTGAACCTGTACCTGGCCTGCCACCCTCCTGCGCAGGCCATGCATGGCTCCCGAGTACAGTAGTATC
TGCTTAGGTGCCAGGCATGTCTAGGCTCTGGGTGCAGTAGTGAGCAGGACGGGTACCATGCTGCCCTGAAGGGG
CCACAGCCTGGGTGGAAGGCAGACCTGAATCACAACGGGCCAGCTCTAGTAATACGAAGGTGAGGTCTGGGATGC
TGCGTGCGGCGCGACGACAGGAGGTATGACCTGGGTGGGGTCAGGGAAAGTCTTAGCTGAGAACTAAGAGATGAG
GGAGGCACAACTCTGCACGGGGGAACGTGTGTGTGCAAAGGTGAGCTGGGGGCGAGAAAGGCCTCTGTGGCCGTC
ATCGGCACTAGCGGGTTGGGGGTGGTGGTGGGGTGTGGCAGCCTCAGGAGCGATCGCTCCCCTGGAGAGGGTGA
TTGAGTGTGAGATCACCGGGGCCCGCGGGCCGTCTGCACTTCTGTTCAGGTTTTCTGGCATTCTCTGTTC
CAGGTTTTCTTCCACCCACGAGCACTTTATTCTCTCCGAGACCCCTTTTCTTCCCCTTCTCTCTCCACCAGG
GGGCGCGCTTAAATTTCCAGACAGAGACCAGAAGGAAGGTTTAGAAAGAAAAGAACTTGCCAGGGCAGCTTT
GCCCTCCAAGAGGCTCCCTCCTGTCTCTAAGTCAATTCCACCCCTCCTCGAAGTCCCGGCTTCCACCCCTCTCCT
CAGAGTCCCGGCGTTTACCTCGTGGTGTGTTTGCCTTGGGCCTTTTCATGCCCCGGCTGCACACATCGTCTGTGAA
TTGTGGCTGTTCACTCCCGAGGATGTGTCTTAGACTCCGGGTGCGGTGGATCTACCCTCTAGTTTACTTGCTCGG
GAGAAGAACTGACTCGTTTTATTTAGTGCCTATTTAGCGAGCCAGAGTAACGTACATTTGTGCTGTTTTCAAT
TTTGTGCTATCGCAAATCACAAAAAACTGTTATCAATTCACATTCATCATCAGCACGAGACCCATTTCTTGTG
CTCCTGCCAGCTCAGGATATTATGTTTCTTTTTTCAATTTTGGCAGTCTGTAAAGTAAATGTCATATGCGTTTG
TTTTAA

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FIGURE 1674

MPHSVTLRGPSFWGFRLVGGRDFSAPLTISR VHAGSKAALAALCPGDLIQAINGESTELMTHLEAQNRIKGCHDH
LTL SVSRPEGRSWPSAPDDSKAQAHRIHIDPEIQDGSPTTSRRPSGTGTGPEDGRPSLGSPYGQPPRFPVPHNGS
SEATLPAQMSTLHVSPPPSADPARGLPRSRDCRVDLGSEVYRMLREPAEPVAAEPKQSGSFRYLQGMLEAGEGGD
WPGPGGPRNLKPTASKLGAPLSGLQGLPECTRCGHGIVGTIVKARDKLYHPECFCMCSDCGLNLKQRGYFFLDERL
YCESHAKARVKPPEGYDVVAVYPNAKVELV

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FIGURE 1675

CGAGCCCCGCGGAACCGAGGCCACCCGGAGCCGTGCCAGTCCACGCCGCGCGTGCCCGGCGGCCTTAAGAACC
CGGCAACCTCTGCCTTCTTCCCTCTTCCACTCGGAGTCGCGCTCCGCGCGCCCTCACTGCAGCCCCCTGCGTCGCC
GGGACCCTCGCGCGCGACCGCCGAATCGCTCCTGCAGCAGAGCCAACATGCCATCACTCGGATGCGCATGAGAC
CCTGGCTAGAGATGCAGATTAATTCCAACCAATCCCGGGGCTCATCTGGATTAATAAAGAGGAGATGATCTTCC
AGATCCCATGGAAGCATGCTGCCAAGCATGGCTGGGACATCAACAAGGATGCCTGTTTGTTCGGGAGCTGGGCCA
TTCACACAGGCCGATACAAAGCAGGGGAAAAGGAGCCAGATCCCAAGACGTGGAAGGCCAACTTTCGCTGTGCCA
TGAACCTCCCTGCCAGATATCGAGGAGGTGAAAGACCAGAGCAGGAACAAGGGCAGCTCAGCTGTGCGAGTGTACC
GGATGCTTCCACCTCTCACCAAGAACCAGAGAAAAGAAAGAAAGTCAAGTCCAGCCGAGATGCTAAGAGCAAGG
CCAAGAGGAAGTCATGTGGGGATTCCAGCCCTGATACCTTCTCTGATGGACTCAGCAGCTCCACTCTGCCTGATG
ACCACAGCAGCTACACAGTTCAGGGCTACATGCAGGACTTGGAGGTGGAGCAGGCCCTGACTCCAGCACTGTTCGC
CATGTGCTGTGTCAGCAGCACTCTCCCCGACTGGCACATCCAGTGGAAAGTTGTGCCGGACAGCACCAGTGATCTGT
ACAACTTCCAGGTGTCAACCATGCCCTCCACCTCTGAAGCTACAACAGATGAGGATGAGGAAGGGAAATTACCTG
AGGACATCATGAAGCTCTTGGAGCAGTCGGAGTGGCAGCCAACAAACGTGGATGGGAAGGGGTACCTACTCAATG
AACCTGGAGTCCAGCCCACCTCTGTCTATGGAGACTTTAGCTGTAAGGAGGAGCCAGAAATTGACAGCCCAGGGG
GGGATATTGGGCTGAGTCTACAGCGTGTCTTTCACAGATCTGAAGAACATGGATGCCACCTGGCTGGACAGCCTGC
TGACCCCAAGTCCGGTTGCCCTCCATCCAGGCCATTCCCTGTGCACCGTAGCAGGGCCCCCTGGGCCCTCTTATTC
CTCTAGGCAAGCAGGACCTGGCATCATGGTGGATATGGTGCAGAGAAGCTGGACTTCTGTGGGCCCTCAACAGC
CAAGTGTGACCCCACTGCCAAGTGGGGATGGGGCTCCCTCCTTGGGTCATTGACCTCTCAGGGCCTGGCAGGCC
AGTGTCTGGGTTTTTCTTGTGGTGTAAGCTGGCCCTGCCTCCTGGGAAGATGAGGTTCTGAGACCAGTGTATCA
GGTCAGGGACTTGGACAGGAGTCAGTGTCTGGCTTTTTCTCTGAGCCCAGCTGCCTGGAGAGGGTCTCGCTGTC
ACTGGCTGGCTCCTAGGGGAACAGACCAGTGACCCAGAAAAGCATAACACCAATCCCAGGGCTGGCTCTGCACT
AAGAGAAAATTGCACTAAATGAATCTCGTTCCCAAAGAACTACCCCTTTTCAGCTGAGCCCTGGGGACTGTTCC
AAAGCCAGTGAAATGTGAAGGAAAGTGGGGTCTTCGGGGCGATGCTCCCTCAGCCTCAGAGGAGCTCTACCCTG
CTCCCTGCTTTGGCTGAGGGGCTTGGGAAAAAACTTGGCACTTTTTCGTGTGGATCTTGCCACATTTCTGATCA
GAGGTGTACACTAACATTTCCCCGAGCTCTTGGCCTTTGCATTTATTTATACAGTGCCTTGCTCGGCGCCCACC
ACCCCTCAAGCCCCAGCAGCCCTCAACAGGCCCAGGGAGGGAAGTGTGAGCGCCTTGGTATGACTTAAAATTGG
AAATGTCATCTAACCATTAAGTCATGTGTGAACACATAAGGACGTGTGTAAATATGTACATTTGTCTTTTATAA
AAAGTAAATTGTT

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FIGURE 1676

MPITRMRMPWLEMQINSNQIPGLIWINKEEMIFQIPWKHAAKHGWDINKDACLFERSWAIHTGRYKAGEKEPDPK
TWKANFRCAMNSLPDIEEVKDQSRNKGSSAVRVYRMLPPLTKNQRKERKSKSSRDAKSKAKRKSCGDSSPDTFSD
GLSSSTLPDDHSSYTVPGYMQDLEVEQALTPALSPCAVSSTLPDWHIPVEVVPDSTSDLYNFQVSPMPSTSEATT
DEDEEGKLPEDIMKLLEQSEWQPTNVDGKGILLNEPGVQPTSVYGDFSCKEEPEIDSPGGDIGLSLQRVFTDLKN
MDATWLDSLTPVRLPSIQAIPCAP

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FIGURE 1677

GCCGCTCGCTCGGCTCCGCTCCCTGGCTCGGCTCCCTGCCTCCGCTCGCAGCCCCCGCCGTAGCCGCCTCCGAG
CCCGCCGCCACATCCTCTGAGAAGATGGCTGTGCCACCCACGTATGCCGATCTTGCCAAATCTGCCAGGGATGTC
TTCACCAAGGGCTATGGATTTGGCTTAATAAAGCTTGATTTGAAAACAAAATCTGAGAATGGATTGGAATTTACA
AGCTCAGGCTCAGCCAACACTGAGACCACCAAAGTGACGGGCAGTCTGGAACCAAGTACAGATGGACTGAGTAC
GGCCTGACGTTTACAGAGAAATGGAATACCGACAATACACTAGGCACCGAGATTACTGTGGAAGATCAGCTTGCA
CGTGGACTGAAGCTGACCTTCGATTATCCTTCTCACCTAACACTGGGAAAAAAAAATGCTAAAATCAAGACAGGG
TACAAGCGGGAGCACATTAACCTGGGCTGCGACATGGATTTGACATTGCTGGGCCTTCCATCCGGGGTGCTCTG
GTGCTAGGTTACGAGGGCTGGCTGGCCGGCTACCAGATGAATTTTGAGACTGCAAAATCCCGAGTGACCCAGAGC
AACTTTGCAGTTGGCTACAAGACTGATGAATTCAGCTTCACACTAATGTGAATGACGGGACAGAGTTTGGCGGC
TCCATTTACCAGAAAGTGAACAAGAAGTTGGAGACCGCTGTCAATCTTGCTGGACAGCAGGAAACAGTAACAG
CGCTTCGGAATAGCAGCCAAGTATCAGATTGACCCTGACGCCTGCTTCTCGGCTAAAGTGAACAACCTCCAGCCTG
ATAGGTTTAGGATACACTCAGACTCTAAAGCCAGGTATTAAGTACACTGTCAGCTCTTCTGGATGGCAAGAAC
GTCAATGCTGGTGGCCACAAGCTTGGTCTAGGACTGGAATTTCAAGCATAAATGAATACTGTACAATTGTTTAAAT
TTTAAACTATTTTGCAGCATAGCTACCTTCAGAATTTAGTGTATCTTTTAAATGTTGTATGTCTGGGATGCAAGTA
TTGCTAAATATGTTAGCCCTCCAGGTTAAAGTTGATTACAGCTTTAAGATGTTACCCTTCCAGAGGTACAGAAGAA
ACCTATTTCCAAAAAAGGTCCTTTTCAAGTGGTAGACTCGGGGAGAACTTGGTGGCCCCCTTTGAGATGCCAGGTTTC
TTTTTTATCTAGAAATGGCTGCAAGTGGGAAGCGGATAATATGTAGGCACCTTTGTAAATTCATATTGAGTAAATGA
ATGAAATTGTGATTTTCTGAGAATCGAACCTTGGTTCCCTAACCTTAATTGATGAGAGGCTCGCTGCTTGATGGT
GTGTACAAACTCACCTGAATGGGACTTTTTTAGACAGATCTTCATGACCTGTTCCACCCCAGTTCATCATCATC
TCTTTTACACCAAAAGGTCTGCAGGGTGTGGTAACTGTTTCTTTTGTGCCATTTTGGGGTGGAGAAGGTGGATGT
GATGAAGCCAATAATTCAAGACTTATTCCTTCTTGTGTTGTGTTTTTTTTTGGCCCTTGCACCAGAGTATGAAAT
AGCTTCCAGGAGCTCCAGCTATAAGCTTGGAAAGTGTCTGTGTGATTGTAATCACATGGTGACAACACTCAGAATC
TAAATTGGACTTCTGTGTATTCTCACCACTCAATTTGTTTTTTAGCAGTTTAAATGGGTACATTTTAGAGTCTTC
CATTTTGTGGAATTAGATCCTCCCCTTCAAATGCTGTAATTAACAACACTTAAAAAATTGAATAAAATATTGA
AACCTC

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FIGURE 1678

MAVPPTYADLGKSARDVFTKGYGFGLIKLDLKTSENGLEFTSSGSANTETTKVTGSLETKYRWTEYGLTFTEKW
NTDNTLGTEITVEDQLARGLKLTDFDSSFSPNTGKKNAKIKTGYKREHINLGCDMDFDIAGPSIRGALVLGYEGWL
AGYQMNFE TAKSRVTQSNFAVG YKTDEFQLHTNVNDGTEFGGSIYQKVNKKLETAVNLAWTAGNSNTRFGIAAKY
QIDPDACFSAKVNNSSLIGLGYTQTLKPGIKLTL SALLDGKNVNAGGHKLGLGLEFQA

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FIGURE 1679

CTCTTCCTTCGCTAACGCCTCCCGGCTCTCGTCAGCCTCCCGCCGGCCGTCTCCTTAACACCGAACACCATGCCT
TCAATTAAGTTGCAGAGTTCTGATGGAGAGATATTTGAAGTTGATGTGGAAATTGCCAAACAATCTGTGACTATT
AAGACCATGTTGGAAGATTTGGGAATGGATGATGAAGGAGATGATGACCCAGTTCCTCTACCAAATGTGAATGCA
GCAATATTAATAAAGGTCATTCAGTGGTGCACCCACCACAAGGATGACCCCTCCTCCTCCTGAAGATGATGAGAAC
AAAGAAAAGCGAACAGATGATATCCCTGTTTGGGACCAAGAATTCCTGAAAGTTGACCAAGGAACACTTTTTGAA
CTCATTCTGGCTGCAAACTACTTAGACATCAAAGGTTTGCTTGATGTTACATGCAAGACTGTTGCCAATATGATC
AAGGGGAAAACCTCTGAGGAGATTCGCAAGACCTTCAATATCAAAAATGACTTTACTGAAGAGGAGGAAGCCCAG
GTACGCAAAGAGAACCAGTGGTGTGAAGAGAAGTGAAATGTTGTGCCTGACACTGTAACACTGTAAGGAT

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FIGURE 1680

MPSIQLQSFDGEIFAVDVEIAKQSVTIKTTLEDLGMDDEGDDPVLPNVNAAVLKKVIQWCTHHKDDPPPPEDDE
NKEKQTDDIPVWDQEFLKVAQGTLFELIRAANYLDIKGLLDVTCKTVANMIKGKTPEEIRKTFNIKNDFTEEEEA
QVRKENQWCEEK

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FIGURE 1681A

CGCTGGGATGGCCGCCACAGCTGTAGGTGCTGCTAGTGTITTAGCGCTGGTCTTTGCCGGGCGTTGAGGGCAGCTC
AGCCTCCTTGTGTTTGTCCGGTTCGCCTGTGCGTGGTACTCAAGGGCACCAGTATTCCCGCGGTCCGGCAGC**AT**GGGT
CGGGAGTCACGCCACTATCGAAAACGATCGGCATCCCGGGGTGCTCTGGAAGTCGGTCTAGAAGTCGCTCACCC
TCAGACAAAAGAAGTAAACGTGGAGATGACAGACGGTCTAGAAGTAGAGATAGAGATAGGAGGAGAGAGAGGTCT
CGTAGCAGGGATAAAAGAAGATCTCGGTCAAGGGACAGGAAGCGTCTGAGACGTTCCAGAAGTAGAGAGAGAGAC
AGAAGCCGAGAGCGAAGAAGATCTCGAAGTAGAGACAGGAGACGCTCAAGGAGTAGAAGCCGGGGCCGGCGATCC
CGATCCTCCAGTCTTGAAATAAAAGCAAGAAAAGTGAAGATAGATCTAGGTCCAAAGAGAAAAGTATGGTGGG
GAAAGTTCTAAAGAGAAAGAAAAAGACAAAGATGACAAGGAGGATGAAAAAGAAAAGATGCTGGCAACTTTGAC
CAGAATAAGCTGGAAGAAGAAATGAGAAAGCGAAAAGAAAGAGTAGAAAAATGGCGAGAAGAGCAACGTAAAAAG
GCTATGGAAAACATAGGAGAACTGAAAAAGGAAATCGAAGAGATGAAACAAGGGAAAAAGTGGAGTTTAGAGGAC
GATGATGATGACGAAGATGATCCTGCAGAAGCTGAAAAGGAGGGGAAATGAAATGGAGGGTGAGGAGTTAGATCCA
TTAGATGCTTACATGGAAGAAGTGAAAGAGGAAGTAAAAAATTTAATGAGAAAGTGTAAAAGGTGGTGGGGGA
AATGAAAAGAAAGTCTGGGCCAACGGTCACAAAAGTTGTCACTGTTGTGACAACCAAAAAGCAGTTGTGGATTCT
GATAAGAAGAAAAGGTGAGCTGATGGAGAATGACCAGGATGCCATGGAGTATTCTTCAGAGGAGGAAGAAGTTGAT
CTTCAGACAGCCCTTACAGGGTATCAAACAAAACAGCGAAAGCTTCTAGAACCAGTTGATCATGGAAAATTGAG
TATGAGCCATTTAGGAAAACTTCTATGTTGAAGTTCCAGAAGTAGCAAAAATGTCTCAAGAAGAGGTAAATGTG
TTTCGATTGGAAATGGAGGGCATTACAGTTAAAGGAAAAGGTTGCCCAAACCAATTAAATCCTGGGTCCAGTGT
GGAATTTCCATGAAGATCTTAAATTCCTCAAGAAGCATGGCTATGAAAAGCCCACGCCCATCCAAACCCAAGCT
ATTCTGCTATAATGTCTGGACGAGATTTGATTGGCATTGCCAAAACAGGAAGTGGAAGACCATTGCTTTTCTG
TTGCCCATGTTTAGACACATCATGGATCAGAGGTCATTAGAGGAAGGAGAGGGGCCAATAGCTGTCATCATGACT
CCAACCTCGAGAACTGGCTTTACAGATTACTAAAGAGTGTAAGAAGTTTCCAAGACTTTGGGACTTAGAGTGGTC
TGTGTTTACGGAGGAACAGGAATCAGTGAGCAGATTGCTGAGCTGAAAAGAGGTGCTGAAATTATTGTTTGCACA
CCTGGTCGAATGATTGACATGTTAGCCGCTAACAGTGGTCGGGTACAAAATCTTCGAAGAGTGACATATGTTGTT
TTAGATGAAGCAGACAGAATGTTTGACATGGGTTTTGAACCCAGGTCATGCGCATCGTGGATAATGTTGCTCCT
GATCGACAGACGGTTATGTTTTAGCTACTTTCCCGAGAGCTATGGAGGCTTTGGCTCGCAGGATCCTCAGTAA
CCTATTGAAGTACAAGTTGGAGGCAGGAGTGTGGTTTTGCTCAGATGTGGAGCAACAAGTGATTGTGATTGAAGAA
GAAAAGAAATCTTGAAGTTACTTGAGCTTCTAGGCCATTATCAAGAGTCAGGATCTGTCATTATATTTGTGGAT
AAGCAGGAACATGCTGATGGTCTTCTTAAGGATTTAATGAGAGCATCTTATCCTTGATGCTCTTTCATGGAGGC
ATTGATCAATATGACAGAGATAGCATATAAATGACTTTAAGAATGGGACCTGCAAACCTTCTGTGGCTACCTCT
GTTGCTGCCCCAGGTCATAGATGTGAACATCTGATTCTTGTAGTAAATATAGCTGCCCAACCAATTATGAGGAT
TATGTACACAGAGCAGGGCGGACTGGAAGAGCAGGAAACAAGGGTTATGCTTATACTTTTATCAGAGGATCAA
GCTCGCTATGCTGGTGACATAATTAAGCTCTTGAATTGTGAGGGACTGCAGTACCTCCTGATTTAGAGAACTG
TGGAGTGATTTCAAAGATCAGCAGAAAGCTGAGGGGAAAATAATTAAGAGAGTAGTGGGTTCTCTGGTAAGGGA
TTCAAGTTTGATGAAACAGAACAAGCTTTGGCTAATGAGAGGAAGAAGTTACAAAAGCAGCTCTTGGTCTACAA
GATTCAGATGATGAGGATGCTGCAGTTGATATTGATGAGCAAAATTGAAAGCATGTTTAATTCAAAGAAGAGAGTA
AAGGATATGGCTGCTCCTGGAACATCAAGTGTTCCTGCTCCAACTGCAGGAAATGCTGAGAAATTAGAAATTGCT
AAGAGATTGGCTCTTAGAATCAATGCCCAGAAGAATTTGGGCATCGAGTCTCAGGTAGATGTGATGCAGCAGGCC
ACCAATGCAATTCTTAGGGGTGGCACCATTCTGGCTCCCACTGTTTCTGCAAAAACCAATTGCAGAACAACTTGCT
GAAAAGATCAATGCCAAGCTCAATTATGTGCCGTTAGAGAAACAAGAAGAAGAGAGACAGGATGGTGGACAGAAT
GAATCTTTTAAGAGATATGAAGAAGAATTAGAGATCAATGACTTCCACAGACTGCTAGGTGGAAAGTTACCTCT
AAGGAAGCTCTGCAGAGAATCAGTGAATACTCTGAAGCCGAATTACAATCAGAGGAACCTACTTCCCTCCTGGC
AAAGAACCCAAGGAAGGCGAGCGGAAGATTTACTTGGCAATTGAAAGTGCCAATGAAGTGGCTGTGCAGAAAGCA
AAGGCAGAAATCACCAGGCTCATAAAGAAGAGCTGATCCGGCTGCAAAATTCATACCAACCAACAAATAAAGGA
AGATACAAAGTCTTA**TAG**ACATCCGGAAGAAAGATTTTACCTGTGCTGGTCTATGATGTATGTGGCAGTTGCTG
TCTGCAGTTTACAATGTATTGTAAATGAAGATTTTTAAATCTATCTTGCTGATTTTTTTTAAATATAAGAAAC
TGGTACTTGGTAAAGAAATCTGTCCGTAAGTACCCCCACAATCAGTCAAACCTATATTTAAAGCCAGCCTGTTTT
AGAGTATGATGTCTTTAATGTAAACTCAAATATCAATATTTTAAATGTCCGGATAATATTCTAGAGGTTTAAAA
AATGAAAATATTTGAACCTTTCTATTGAAGACAATAAAGTACACAAGTCGTTAAGGGGCTATTCACTTTATCCTGT

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FIGURE 1681B

ACTTTCAATGAAATTGTGATCATTTCCTAAGAAAAGGTAAAATTCACTATCATATTTTGTGTCCCCACCTTGATG
TTACATGACTCTGGAACAATATGAACTGGATTTAAGAATGTTATAATAGAAGTCTTACAAAATGG

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FIGURE 1682

MGRESRHYRKRSASRGRSGSRSRSPSPDKRSKRGDDRRSRSRDRDRRRRERSRSDKRRSRSDRKRLRRSRRE
RDRSRERRRRSRDRRRSRSRSGRRSRSSSPGNKSKKTENRSRSKEKTDGGESSKEKKKDKDDKEDEKEKDAGN
FDQNKLEEMRKRKERVEKWREEQRKKAMENIGELKKEIEMKQGKKWSLEDDDDDEDDPAEAEKEGNEMEGEEL
DPLDAYMEEVKEEVKKFNMRSVKGGGGNEKKSGPTVTKVTVTVTTKAVVDSKKGELMENDQDAMEYSSEEEE
VDLQTALTGYQTKQRKLLPVDHGKIEYEFPRKNFYVEVPELAKMSQEEVNVFRLEMEGITVKGKGCPCPKIKSWV
QCGISMKILNSLKKHGYEKPTPIQTQAIPAIMSGRDLIGIAKTGSGKTIAFLLPMFRHIMDQRSLEEGEGPIAVI
MPTRELALQITKECKKFSKTLGLRVVCVYGGTGISEQIAELKRGAEIIVCTPGRMIDMLAANSGRVTNLRRVTY
VVLDEADRMFDMGFEPQVMRIVDNVRPDRQTVMFSAFFPRAMEALARRILSKPIEVQVGGRSVVCSDVEQQVIVI
EEEKKFLKLELLGHYQESGSVIFVVKQEHADGLLKDLMRASYPCMSLHGGIDQYDRDSIINDFKNGTCKLLVA
TSPAARGLDVKHLILVVNYSCPNHYEDYVHRAGRTGRAGNKGAYTFITEDQARYAGDIKALELSGTAVPPDLE
KLWSDFKDQQAEGKIIKKSSGFSKGFKFDETEQALANERKKLQKAALGLQDSDEDAAVDIDEQIESMFNSKK
RVKDMAAPGTSSVPAPTAGNAEKLEIAKRLALRINAQKNLGIESQVDVMQQATNAILRGGTILAPTVSAKTIAEQ
LAEKINAKLNYVPLEKQEEERQDGGQNESFKRYEEEELEINDFPQTARWKVTSKEALQRISEYSEAAITIRGTYP
PGKEPKEGERKIYLAIESANELAVQKAKAEITRLIKEELIRLQNSYQPTNKGRYKVL

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FIGURE 1683A

GCTGCGGCTCCGCTCTCGTCGCAACGAGATCTTTCGAGATCTTCTCCGCCCCGCTACCGGGCGCCTCCTCTGCGG
CCACTGAGCCGGAGCCGGCCTGAGCAGCGCTCTCGGTTGCAGTACCCACTGGAAGGACTTAGGCGCTCGCGTGGA
CACCGBAAGCCCCCTCAGTAGCCTCGGCCCAAGAGGCCTGCTTTCCTACTCGCTAGCCCCGCCGGGGGTCCGTGTCC
TGTCTCGGTGGCCGGACCCGGGCCCCGAGCCCCGAGCAGTAGCCGGCGCCATGTCGGTGGTGGGCATAGACCTGGGC
TTCCAGAGCTGCTACGTGCTGTGGCCCCGCGCCGGCGGCATCGAGACTATCGCTAATGAGTATAGCGACCGCTGC
ACGCCGGCTTGCATTTCTTTTGGTCCTAAGAATCGTTCAATTGGAGCAGCAGCTAAAAGCCAGGTAATTTCTAAT
GCAAAGAACACAGTCCAAGGATTTAAAAGATTCCATGGCCGAGCATTCTCTGATCCATTTGTGGAGGCAGAAAAA
TCTAACCTTGCATATGATATTGTGCAGTTGCCTACAGGATTAACAGGTATAAAGGTGACATATATGGAGGAAGAG
CGAAATTTTACCACTGAGCAAGTGACTGCCATGCTTTTGTCCAACTGAAGGAGACAGCCGAAAGTGTTCTTAAG
AAGCCTGTAGTTGACTGTGTTGTTTCGGTTTCCTTGTTTCTATACTGATGCAGAAAGACGATCAGTGATGGATGCA
ACACAGATTGCTGGTCTTAATTGCTTGCATTAAATGAATGAAACCACTGCAGTTGCTCTTGATATGGAATCTAT
AAGCAGGATCTTCTGCTTAGAAGAGAAAACCAAGAAATGTAGTTTTTGTAGACATGGGCCACTCTGCTTATCAA
GTTTCTGTATGTGCATTTAATAGAGGAAAACCTGAAAGTTCTGGCCACTGCATTTGACACGACATTGGGAGGTAGA
AAATTTGATGAAGTGTTAGTAAATCACTTCTGTGAAGAATTTGGGAAGAAATACAAGCTAGACATTAAGTCCAAA
ATCCGTGCATTATTACGACTCTCTCAGGAGTGTGAGAACTCAAGAAATTGATGAGTGCAAATGCTTCAGATCTC
CCTTTGAGCATTGAATGTTTTATGAATGATGTTGATGTATCTGGAACCTATGAATAGAGGCAAATTTCTGGAGATG
TGCAATGATCTCTTAGCTAGAGTGAGCCACCCTTCGTAGTGTTTTGGAACAAACCAAGTTAAAGAAAGAAGAT
ATTTATGCAGTGGAGATAGTTGGTGGTGCTACACGAATCCCTGCGGTAAAAGAGAAGATCAGCAAATTTTTCGGT
AAAGAACTTAGTACAACATTAAATGCTGATGAAGCTGTCACTCGAGGCTGTGCATTGCAGTGTGCCATCTTATCG
CCTGCTTTCAAAGTCAGAGAATTTCTATCACTGATGTAGTACCATATCCAATATCTCTGAGATGGAATTTCTCCA
GCTGAAGAAGGGTCAAGTGACTGTGAAGTCTTTTCCAAAATCATGCTGCTCCTTTCTCTAAAGTTCTTACATTT
TATAGAAAGGAACCTTTCACTCTTGAGGCCTACTACAGCTCTCCTCAGGATTTGCCCTATCCAGATCCTGCTATA
GCTCAGTTTTTCAGTTCAGAAAGTCACTCCTCAGTCTGATGGCTCCAGTTCAAAGTGAAAGTCAAAGTTTCGAGTA
AATGTCCATGGCATTTCAGTGTGTCCAGTGCATCTTTAGTGGAGGTTACAAGTCTGAGGAAAATGAGGAGCCA
ATGGAAACAGATCAGAATGCAAAGGAGGAAGAGAAGATGCAAGTGGACCAGGAGGAACCACATGTTGAAGAGCAA
CAGCAGCAGACACCAGCAGAAAATAAGGCAGAGTCTGAAGAAATGGAGACCTCTCAAGCTGGATCCAAGGATAAA
AAGATGGACCAACCACCCCAAGCCAAGAAGGCAAAAGTGAAGACCAGTACTGTGGACCTGCCAATCGAGAATCAG
CTATTATGGCAGATAGACAGAGAGATGCTCAACTTGTACATTGAAAATGAGGGTAAGATGATCATGCAGGATAAA
CTGGAGAAGGAGCGGAATGATGCTAAGAACGCAAGTGGAGGAATATGTGTATGAAATGAGAGACAAGCTTAGTGGT
GAATATGAGAAGTTTGTGAGTGAAGATGATCGTAACAGTTTTACTTTGAAACTGGAAGATACTGAAAATTGGTTG
TATGAGGATGGAGAAGACCAGCCAAAGCAAGTTTATGTTGATAAGTTGGCTGAATTAATAAATCTAGGTCAACCT
ATTAAGATACGTTTCCAGGAATCTGAAGAACGACCAAAATTTTGAAGAACTAGGGAAACAGATCCAACAGTAT
ATGAAAATAATCAGCTCTTTCAAAAACAAGGAGGACCAGTATGATCATTGGATGCTGCTGACATGACAAAGGTA
GAAAAAAGCACAAATGAAGCAATGGAGTGGATGAATAACAAGCTAAATCTGCAGAACAAGCAGAGTTTGACCATG
GATCCAGTTGTCAAGTCAAAAAGAGATTGAAGCTAAAATTAAGGAGCTGACAAGTACTTGTAGCCCTATAATTTCA
AAGCCCAAACCCAAAGTGAACCTCCAAAAGAGGAACAAAAAATGCAGAGCAGAATGGACCAGTGGATGGACAA
GGAGACAACCCAGGCCCCAGGCTGCTGAGCAGGGTACAGACACAGCTGTGCCTTCGGATTACAGACAAGAAGCTT
CCTGAAATGGACATTGATTGATTCCAACACTTGTTTCTATTAAACAGACTATTATAAAGCTTTAAGTTGTCAAC
TTTGTCTAAATATCAACTAGCGCAAGTGAATACTGAAGATTTCTTAGTCAGTTTTTAGGGGATTTTCGGGGAGG
GGAAATAGGTAATGTATGGAGCATTTTCACTTCTAAATAGTTAGATACAGAAATTAAGTGCATTGTATCTTTTC
ATAATGGTACTATTTAGAAGCCAGTTAGTCTTACTGAGCTTATGCTTCACTCCTTTATGTTTAACCATGTGTCT
ACAAGAATAAGTTTGTGTTTGGAAAGTTGAGCTATAGCTACAGCTCTAGCTATCCAGCAGACTTTTCATTATGACT
TACATGGCAGGAGCTCTAATTATGCTTTAAAAATCTGTTGTGGAGATTGCTTTAAATGCTCCCTGCCTGGTGTGG
GGATGGGGTCCCCCTCTTGTGAGGGCTGGAGCATGGCACGGCATGGATTAACACGGCAGAGGAACAAAGGTGTG
CTCTGAGCTTCTTCATATTTACCTTCACCTCACCTGTGTTCTCTCCCTCTCTCCCAATAAAAGGGCTCCCAT
TATAAATGCCATGTACTTCTCTTGGGAAAATAGACCCCTTGCTAGAGTAAGTTGTTAACTGAGGGCTTTAAAC
CTGGAGGCTCTTCTGAAAGTATGTTTCATGAATACCCCAAGCATCAAGGTCTAAATAATTTTCAGAAGATTAGAA
TTGGGTAGATATACTGTTGGATATAGCCATGGTAAATTTAACTGAGGAATTAATCCTTGTTAATTTTGGTGTAA

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FIGURE 1683B

AGATTTGTATCCTGGCCTGTTTATTCAGGTGGGAGATGTTCTGTATAATTTTGAGGTATAGCTTGAACCTCTAGA
ACAAGAGTTAAAAGTTCTTTTAGCTCATTACAAATCACTTGTGTGTTAAGTGTTAATATCTGTCATGAACCTGC
CAATTTGTACGTGTTAAGCAGCTGACAGATGATGCAAAAAAACTAAGATACACTGGATTGTACTGGATGAGTCT
GAAATTAGTGTTAAAGAAGTGTGGTGCCTGATGTTATAACAACACCTCATTCTTAACTGTGTGGCCAATGTCAGG
TATACCAAAGCATTCCCTCTGACTGCTTTTTGGGGCAGTGTTGACAGGAGTGAGGCATTTTGGAAACTCCAAGGGA
AGCCTGTGTTTGAGGCCAGAGTTGGTACCTGCTTTAAGAACTGTTACAGGGCTTGTGGTAATGTTTTGAATCT
TTGTAAAAATTGATATTCTGTATAACAGAGTGCTCTCTGTTACTTTTGGCCTATGTTGTTAGAAATAAGATGCT
ATCTTG CATAGTTAGAATTAAGCGTTTGTCCATCTCTAGATAACATTGAAAAGTTTGAGTGTTACAGGCTCTAAA
GTGCAATGGAGAACAATTGCTTAGGAGGAGGAAGGGGAAAGTATACTTATGTTGGTGTGTAAGCATGCATGGAGG
CCTCGAGGCACCACAACAAGGCCAGGTTCTTAGCACATCCTCTGTTCTCTACCTGTCATGCTTCAAGAGTTCCAG
CTGGCCTGCTGTGAAGCCAGTAGCTATTTTAAAAGTGCTGGCTGCAGGATTAAGCCAACCCCTTACAACCTGGCCC
AGACCGTAATGGCCATTTCTTCTTAAAAAATAAATTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
GGTGTGTGTGTGTGTGTGTGTGGGGAAGGGTGTGGGTGCTGGGATGGGGGTGAATTTCAAGTTGAAACACGATGA
TGTTGGTCTGCTTGCTCTCTGCTTAGACAGGCTTTAAGACCAATTGGATTTTCATGGAGGCCAGGACAGAGAGTGG
TAATTGATGGCTTGTTACAGACAAGCATTATCCAGGTTGCGTTATCCAACTGATTTGTTAAAGCTCCAGGTC
ACGTTCTTACACTAAGAAAATCATTACAGTAAACATGAGACAAGTTTAGGAAAACTAATAAAATAAACCTGTCTT
AAACTTG

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FIGURE 1684

MSVVGIDLGFQSCYVAVARAGGIETIANEYSDRCTPACISFGPKNRSIGAAAKSQVISNAKNTVQGFKRFGRAF
SDPFVEAEKSNLAYDIVQLPTGLTGIVTYMEEERNFTTEQVTAMLLSKLKETAESVLKKPVVDCVVSVPFCFYTD
AERRSVMDATQIAGLNCLRLMNETTAVALAYGIYKQDLPALEEKPRNVVFVDMGHSAYQVSVCAFNRGKLKVLAT
AFDCTLGGRKFDEVLVNHFCSEFGKKYKLDIKSKIRALLRLSQECEKLKKLMSANASDLPLSIECFMNDVDVSGT
MNRGKFLEMCNDLLARVEPPLRSVLEQTKLKKEDIYAVEIVGGATRIPAVKEKISKFFGKELSTTLNADEAVTRG
CALQCAILSPAFAKVFREFSITDVVPYPISLRWNSPAEEGSSDCEVFSKNHAAPFSKVLTFYRKEPFTLEAYYSSPQ
DLPYPDPPIAQFSVQKVTPQSDGSSSKVKVKVRVNVHGIFSVSSASLVEVHKSEENEPMETDQNAKEEEKMQVD
QEEPHVEEQQQQTPAENKAEESEEMETSQAGSKDKKMDQPPQAKKAKVKTSTVDLP IENQLLWQIDREMLNLYIEN
EGKMIMQDKLEKERNDKNAVEEYVYEMRDKLSGEYEFVSEDDRNSFTLKLEDTENWLYEDGEDQPKQVYVDKL
AELKNLGQPIKIRFQSESEERPKLFEELGKQIQQYMKIISFKNKEDQYDHLDAADMTKVEKSTNEAMEWMNNKLN
LQNKQSLTMDPVVKSKEIEAKIKELTSTCSPIISKPKPKVEPPKEEQKNAEQNGPVDGQGDNPQPQAAEQGTDTA
VPSDSKKLPEMDID

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FIGURE 1685

GACTGTCTACATTAGTAATTCCTCAACTTGGGTCCGAAAGTGAACCTTTTGCTGAAGCGAAGTAGCTAACCGCTTCC
ATGTGCAAGGCAGGTTCCAGACTTCGGGGTGAGGAGGATTAAGTGAAGGACCCCAGGGGAACCGGTGTGCTCACT
GATCCGCCCTCCAGGGCCACCGCCATGTCGAGCCGCGGTGGGAAGAAGAAGTCCACCAAGACGTCCAGGTCTGCCA
AAGCAGGAGTCACTCTTCCCGTGGGGCGGATGCTGCGGTACATCAAGAAAGGCCACCCCAAGTACAGGATTGGAG
TGGGGGCACCCGTGTACATGGCCGCCGTCTTGGGAATACCTGACAGCGGAGATTCTGGAGCTGGCTGGCAATGCAG
CGAGAGACAACAAGAAGGGACGGGTACACCCCCGGCACATCCTGCTGGCTGTGGCCAATGATGAAGAGCTGAATC
AGCTGCTAAAAGGAGTCACCATAGCCAGTGGGGGTGTGTTACCCAACATCCACCCCGAGTTGCTAGCGAAGAAGC
GGGGATCCAAAGGAAAGTTGGAAGCCATCATCACACCACCCCCAGCCAAAAGGCCAAGTCTCCATCCAGAAGA
AGCCTGTATCTAAAAAGCAGGAGGCAAGAAAGGGGCCCCGAAATCCAAGAAGCAGGGTGAAGTCAGTAAGGCAG
CCAGCGCCGACAGCACAACCGAGGGCACACCTGCCGACGGCTTCACAGTCTCTCCACCAAGAGCCTCTTCCTTG
GCCAGAAGCTGAACCTTATTACAGTGAAATCAGTAATTTAGCCGGCTTTGAGGTGGAGGCCATAATCAATCCTA
CCAATGCTGACATTGACCTTAAAGATGACCTAGGAAACACGCTGGAGAAGAAAGGTGGCAAGGAGTTTGTGGAAG
CTGTCTTGGAACTCCGGAAGAAAGAACGGGGCCCTTGAAGTAGCTGGAGCTGCTGTCAGCGCAGGCCATGGCCTGC
CTGCCAAGTTTGTGATCCACTGTAATAGTCCAGTTTGGGGTGCAGACAAGTGTGAAGAACTTCTGGAAAAGACAG
TGAAAAACTGCTTGGCCCTGGCTGATGATAAGAAGCTGAAATCCATTGCATTTCCATCCATCGGCAGCGGCAGGA
ACGGTTTTCAAAGCAGACAGCAGCTCAGCTGATTCTGAAGGCCATCTCCAGTTACTTCGTGTCTACAATGTCCT
CTTCCATCAAAACGGTGTACTTCGTGCTTTTTGACAGCGAGAGTATAGGCATCTATGTGCAGGAAATGGCCAAGC
TGGACGCCAACTAGGCTGAGCAATGACAGAACCAGCTGCACCATGTACCCACCTTCAGTTTAAAGAAAAAAA
AATCCCTTCACTCCTACTGGGAGGTGGGACCCCTTTCATTTTCAGTTTGTCTCATCTAGGGAAAATAAGGCTTT
GGTTTCCAGTTTAATTGTTTTTGACCTTCTAAAATGTTTTATGTTAGCACTGATAGTTGGCATTACTGTTGTTA
AGCACTGTGTTCCAGACCGTGTCTGACTTAGTGTAACCTAGGAGATTTTATAGTTTTATTTAATGAAACCCTGA
TTGACGCACAGCAGTGGGGAGAACAGCGTCTTTTACCTGTCACCGAAGCCAGGAAGCCCCGTTTGTAAAGCGTGTG
TTGTGGTGCTTTATTGTACATCCTCCAGTGGCGTTCTTTTACTCTAATGTTCTTTTGGTTTCCCCCTCAGAAG
AATCATGAATTTGCAACAGACCTAATTTTTGGTTACTTTTTGTCTTATTGATGGATTTGAAAATGAAAGATTTAA
TAAGGCAAAGCAGAATCTGTTGTCCTTAATTATATTTGCAATTTGGAATTTGTGTGAGTTGATTTAGTAAATGT
TAAACCGTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1686

MSSRGGKKKSTKTSRSKAGVIFPVGRMLRYIKKGHPKYRIGVGAPVYMAAVLEYLTAEILELAGNAARDNKKGR
VTPRHILLAVANDEELNQLLKGVTIASGGVLPNIHPELLAKKRGSKGKLEAIITPPPAKKAKSPSQKKPVSKKAG
GKKGARKSKKQGEVSKAASADSTTEGTPADGFTVLSTKSLFLGQKLNLIHSEISNLAGFEVEAIINPTNADIDLK
DDLGNLEKKKGKEFVEAVLELRKKNNGPLEVAGAAVSAGHGLPAKFVHCNSPVWGADKCEELLEKTVKNCLALA
DDKKLKSIAFP SIGSGRNGFPKQTAAQLILKAISSYFVSTMSSSIKTVYFVLFDS SIGIYVQEMAKLDAN

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FIGURE 1687

GGACGAGGGGGGAGCGGAGGTGGCGGCGGCGGCGGTAGCGGTGGCCTTG GTTGTCTTCCAGTCTCCTCGGCTCGC
CCTTTAGCCGGCACCCTCCCTTCCCTCCCTTCCCTCTCTTCCCTTCCCTTCCCTTCCCTTTTTCCCTTC
CCCGTCGGTGAGCGGCGGGGGTGGCTCCAGCAACGGCTGGGCCCCAAGCTGTGTAGAGGCCTTAACCAACGATAAC
GGCGGCGACGGCGAAACCTCGGAGCTCGCAGGGCGGGGGCAAGGCCCGGGCCTTGAGAGATGGAGAATTCTCAGTT
GTGTAAGCTGTTCATCGGCGGCCTCAATGTGCAGACGAGTGAGTCGGGCCTGCGCGGCCACTTTGAGGCCTTTGG
GACTCTGACGGACTGCGTGGTGGTGGTGAATCCCCAGACCAAGCGCTCCCGTTGCTTTGGCTTCGTGACCTACTC
CAATGTGGAGGAGGCGGACGCCGCCATGGCCGCCTCGCCCCATGCCGTGGACGGCAACACTGTGGAGCTGAAGCG
GGCGGTGTCCCGGGAGGATTGCGCGCGGCCCGGTGCCACGCCAAGGTTAAGAAGCTCTTTGTGCGAGGCCTTAA
AGGAGACGTGGCTGAGGGCGACCTGATCGAGCACTTCTCGCAGTTTGGCACCGTGGAAGAGCCGAGATTATTGC
CGACAAGCAGTCCGGCAAGAAGCGTGGATTGGCTTCGTGTATTTCCAGAATCACGACGCGGCAGACAAGGCCGC
GGTGGTCAAGTTCCATCCGATTACAGGGCCATCGCGTGGAGGTGAAGAAAGCAGTCCCCAAGGAGGATATCTACTC
CGGTGGGGGTGGAGGCGGCTCCCGATCCTCCCGGGCGGCGGAGGCGGCCGGGGCGCGGCGGTGGTTCGAGACCA
GAACGGCCTTTCCAAGGGCGGCGGCGGCGGTTACAACAGCTACGGTGGTTACGGCGGCGGCGGAGGCGGCGGCTA
CAATGCCTACGGAGGCGGCGGCGGCGGTTTCGTCTACGGTGGGAGCGACTACGGTAACGGCTTCGGCGGCTTCGG
CAGCTACAGCCAGCATCAGTCTCTCTATGGGCCCATGAAGAGCGGCGGCGGCGGCGGCGGTGGAGGCAGTAGCTG
GGGCGGTGCGCAGTAATAGTGGACCTTACAGAGGCGGCTATGGCGGTGGGGGTGGCTATGGAGGCAGCTCCTTCTA
AAAGAAAATTTAAAATGCCTGGGAGTGGCTATAGGGGTAGCTCTTTCCAACAGCCCAAGTGGGGTCAACTCCTAA
GCCCCACCCCTCACACACACCGCCTTCCCTGTTTTGCCCTTGGGGGAGCCACTTCTAAGGCTGCTTACCCTTGG
GGGTGTTCTCTATTTGCCTGCCACCTCTCTTGTCTCTCCCTCTGAAGATGGACTCGGCCCCACATACACATTTT
TGTGTTACAGTCATTGATGGACTCTATTTTTTTATTATTACTTGGACCTTGGTCGTTTTTTATACTAGCAAAATGT
CTTGTTTTAATTTGTGTTTTTTGGGGGAGGGAGGGAGTGAACCTTGCTGATTCTGTAGCAAAACCTGGGTGGGG
TTGGGTGGGGGGTAGTTTACTTTGTTGTAAGGACTTGATAACCTGGCTACAGCGTTTTCTATGAAATCTACTTG
GATCCCATGCCTGAAATTTGGAAGCATATGTACACAAATCATTTTTACGTTTTATTTTTAATAAATCATTGTGTT
TGACCGTA

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FIGURE 1688

MENSQLCKLFIGGLNVQTSESGLRGHFEAFGTLTDCVVVVNPQTKRSRCFGFVTYSNVEEADAAMAASPHAVDGN
TVELKRAVSREDSARPGAHAKVKKLFVGGLKGDVAEGDLIEHFSQFGTVEKAEIIADKQSGKKRGFGFVYFQNHD
AADKAAVVKFHPIQGHRVEVKKAVPKEDIYSGGGGGSRSSRGGRGGRGGRDQNGLSKGGGGGYNSYGGYGG
GGGGGYNAYGGGGGGSSYGGSDYGNGFGGFGSYSQHQSSYGPMKSGGGGGGGSSWGGRSNSGPYRGGYGGGGY
GGSSF

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FIGURE 1689

CCGCAGAACTTGGGGAGCCGCCGCCGCATCCGCCGCCGCAGCCAGCTTCCGCCGCCGCAGGACCGGCCCTGCC
CCAGCCTCCGCAGCCGCGGCGCGTCCACGCCCCGCCGCCAGGGCGAGTCGGGGTCGCCGCTGCACGCTTCT
CAGTGTTCCCGCGCCCCGCATGTAACCCGGCCAGGCCCCCGCAACGGTGTCCCTGCAGCTCCAGCCCCGGGT
GCACCCCCCGCCCCGACACCAGCTCTCCAGCCTGCTCGTCCAGGATGCCGCGCCAAAGGCCGAGATGCAGCTG
ATGTCCCGCTGCAGATCTCTGACCCGTTCCGATCCTTTCTCACTCGCCACCATGGACAACCTACCCTAAGCTG
GAGGAGATGATGCTGCTGAGCAACGGGGCTCCCCAGTTCCTCGGCGCCGCCGGGGCCCCAGAGGGCAGCGGCAGC
AACAGCAGCAGCAGCAGCAGCGGGGGCGGTGGAGGCGGCGGGGGCGGCAGCAACAGCAGCAGCAGCAGCAGCACC
TTCAACCCTCAGGCGGACACGGGGCAGCAGCCCTACGAGCACCTGACCGCAGAGTCTTTTCTGACATCTCTCTG
AACAACGAGAAGGTGCTGGTGGAGACCAGTTACCCAGCCAAACCACTCGACTGCCCCCATCACCTATACTGGC
CGCTTTTCCCTGGAGCCTGCACCCAACAGTGGCAACACCTTGTGGCCCCGAGCCCCCTTTAGCTTGGTCAGTGGC
CTAGTGAGCATGACCAACCCACCGGCTCCTCGTCTCAGCACCATCTCCAGCGGCTCCTCCGCTCCGCTCC
CAGAGCCACCCCTGAGCTGCGCAGTGCCATCCAACGACAGCAGTCCATTACTCAGCGGCACCCACCTTCCCC
ACGCCGAACACTGACATTTTCCCTGAGCCACAAAGCCAGGCCCTTCCGGGCTCGGCAGGGACAGCGCTCCAGTAC
CCGCTCCTGCCTACCCTGCCGCCAAGGGTGGCTTCCAGGTTCCCATGATCCCCGACTACCTGTTTCCACAGCAG
CAGGGGGATCTGGGCTGGGCACCCAGACCAGAAGCCCTTCCAGGGCTGGAGAGCCGACCCAGCAGCCTTCG
CTAACCCTCTGTCTACTATTAAGGCCCTTTGCCACTCAGTCGGGCTCCAGGACCTGAAGGCCCTCAATACCAGC
TACCAGTCCAGCTCATCAACCCAGCCGCATGCGCAAGTATCCAACCGGCCAGCAAGACGCCCCCCCCACGAA
CGCCCTTACGCTTGGCCAGTGGAGTCTGTGATCGCCGCTTCTCCGCTCCGACGAGCTCACCCGCCACATCCGC
ATCCACACAGGCCAGAAGCCCTTCCAGTGCCGCATCTGCATGCGCAACTTCAGCCGCAGCGACCACTCACCACC
CACATCCGCACCCACACAGGCGAAAAAGCCCTTCGCTGCGACATCTGTGGAAGAAAGTTTGGCAGGAGCGATGAA
CGCAAGAGGCATACCAAGATCCACTTGCGGCAGAAGGACAAGAAAGCAGACAAAAGTGTTGTGGCCTCTTCGGCC
ACCTCCTCTCTCTCTTCTTACCCGTTCCCGGTTGCTACCTCTTACCCGTTCCCGGTTACTACCTCTTATCCATCC
CCGGCCACCACCTCATACCCATCCCCCTGTGCCCACCTCCTTCTCCTCTCCCGGCTCCTCGACCTACCCATCCCCT
GTGCACAGTGGCTTCCCTCCCGCTCGGTGGCCACCACGTACTCCTCTGTTCCCCCTGCTTTCCCGGCCAGGTC
AGCAGCTTCCCTTCTCAGCTGTCACTCACTCCTTCCAGCGCTCCACAGGGCTTTCGGACATGACAGCAACCTTT
TCTCCAGGACAATTGAAATTTGCTTAAAGGGAAAGGGGAAAGAAAGGGGAAAGGGAGAAAAAGAAACACAAGAGA
QTTAAAGGACAGGAGGAGGAGATGGCCATAGGAGAGGAGGGTTCTCTTAGGTGAGATGGAGGTTCTCAGAGCCA
AGTCTCCCTCTCTACTGGAGTGGAAGGTCTATTGGCCAACAATCCTTTCTGCCCCTTCCCCCTCCCCAATTAC
TATTCCCTTTGACTTCAGCTGCCTGAAACAGCCATGTCCAAGTCTTACCTCTATCCAAAGAACTTGATTGCA
TGGATTTTGGATAAATCATTTTCAGTATCATCTCCATCATATGCCTGACCCCTTGCTCCCTTCAATGCTAGAAAAT
CGAGTTGGCAAAATGGGGTTTGGGCCCCCTCAGAGCCCTGCCCTGCACCCCTGTACAGTGTCTGTGCCATGGATTT
CGTTTTTCTTGGGGTACTCTTGATGTGAAGATAATTTGCATATTCTATTGTATTATTTGGAGTTAGGTCTCACT
TGGGGGAAAAAAAAAAAAAAAAAGCCAAGCAAACCAATGGTGATCCTCTATTTTGTGATGATGCTGTGACAATAAG
TTTGAACCTTTTTTTTTTGAACAGCAGTCCCAGTATTCTCAGAGCATGTGTGAGAGTGTGTTCCGTTAACCTTT
TTGTAAATACTGCTTGACCGTACTCTCACATGTGGCAAAATATGGTTTGGTTTTCTTTTTTTTTTTTGAAGTG
TTTTTTCTTCGTCCTTTTGGTTTAAAAAGTTTACGCTCTTGGTGCCTTTTGTGTGATGCCCCCTTGCTGATGGCTT
GACATGTGCAATTGTGAGGGACATGCTCACCTCTAGCCTTAAGGGGGGCAGGGAGTGATGATTTGGGGGAGGCTT
TGGGAGCAAAATAAGGAAGAGGGCTGAGCTGAGCTTCGGTTCTCCAGAATGTAAGAAAACAAAATCTAAAACAAA
ATCTGAACCTCTCAAAAGTCTATTTTTTTAACTGAAAATGTAAATTTATAAATATATTACAGGAGTTGGAATGTTGT
AGTTACCTACTGAGTAGGCGGCGATTTTTGTATGTTATGAACATGCAGTTCATTATTTTGTGGTTCTATTTTACT
TTGTACTTGTGTTTGCTTAAACAAAGTGACTGTTTGGCTTATAAACACATTGAATGCGCTTTATTGCCCATGGGA
TATGTGGTGTATATCCTTCCAAAAAATTAACGAAAATAAAGTAGCTGCGATTGGG

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FIGURE 1690

MAAAKAEMQLMSPLQISDPFGSFPHSPTMDNYPKLEEMMLLSNGAPQFLGAAGAPEGSGSNSSSSSSSGGGGGGGG
GSNSSSSSSSTFNPQADTGEQPYEHLTAESFPDISLNNEKVLVETSYPSTTRLPPITYTGRFSLEPAPNSGNTLW
PEPLFSLVSGLVSMTNPPASSSSAPSPAASSASASQSPPLSCAVPSNDSSPIYSAAPTFTPTNTDIFPEPQSQAF
PGSAGTALQYPPPAYPAAKGGFQVPMIPDYLFPQQQDLGLGTPDQKPFQGLESTQQPSLTPLSTIKAFATQSG
SQDLKALNTSYQSOLIKPSRMRKYPNRPSKTPPHERPYACPVESCDRRFSRDELTRHIRIHTGQKPFQCRICMR
NFSRSDHLTTHIRHTGEKPFACDICGRKFARSDEKRRHTKIHLRQKDKKADKSVVASSATSSLSSYPSPVATSY
PSPVTTSPSPATTSPSPVPTSFSSPGSSTYSPVHSGFPSPSVATTYSSVPPAFPAQVSSFPSSAVTNSFSAS
TGLSDMTATFSPRTIEIC

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FIGURE 1691

ATGGCAAGAAAAGCTGGCAACTTCTATGTACCTGCAGAACCCAAATTGGCGTTTGTTCATCAGGATCAGAGGCATC
AATGGTGTGAGCCCAAAGCCCTACAAGGCGCTTCCTCCCGGCCCCAGGCCCATACAAGGCGCTTCCTTCCCGGCG
CGGCTGGCTGGCGGCCCCGCGGGCTGGGAGCCCGCCGGAGCACAGCACGCCCTGCCGGAGGTCTTTCAGCGGCCC
CAGCCCGGGACCTCCAGCCACACGGGCCTCCGAGCCTCGCCGGCCGCTCTCCCCTGA

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FIGURE 1692

MARKAGNFYVPAEPKLAFVIRIRGINGVSPKPYKALPPGPRPIQGASFPARLAGGPRAGSPPGAQHALPEVFQRP
QPGTSSHTGLRASPAALP

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FIGURE 1693

GGCACGAGGGGAGCGCTTGTTTGCTGCCTCGTACTCCTCCATTTATCCGCCATGAATAAGTGCCAGCCGAGCTGCA
GCAGCCCGTCTCGTGGGCGCCGAGCCTCCCGGGGCCCTACGGCCGCCGCCACCAGGATAGCTGGAATGGCCTT
AGTCATGAGGCTTTTAGACTTGTTTCAAGGCGGGATTATGCATCAGAAAGCAATCAAGGGAGCAGTTGTTGGTATT
GATTTGGGTACTACCAACTCCTGCGTGGCAGTTATGGAAGGTAAACGAGCAAAAGGTGCTGGAGAATGCCGAAGGT
GCCAGAACCACCCCTTCAGTTGTGGCCTTTACAGCAGATGGTGAGCGACTTGTTGGAATGCCGGCCAAGCGACAG
GCTGTCAACCAACCAACAATACATTTTATGCTACCAAGCGTCTCATTGGCCGGCGATATGATGATCCTGAAGTA
CAGAAAAGACATTAAAAATGTTCCCTTTAAATTTGTCCGTGCCTCCAATGGTGATGCCTGGGTTGAGGCTCATGGG
AAATTGTATTCTCCGAGTCAGATTGGAGCATTGTGTGATGAAGATGAAAGAGACTGCAGAAAATTACTTGGGG
CGCACAGCAAAAAATGCTGTGATCACAGTCCAGCTTATTTCAATGACTCGCAGAGACAGGCCACTAAAGATGCT
GGCCAGATATCTGGACTGAATGTGCTTCGGGTGATTAATGAGCCCACAGCTGCTGCTCTTGCTATGGTCTAGAC
AAATCAGAAGACAAAGTCATTGCTGTATATGATTTAGGTGGTGGAACTTTGATATTTCTATCCTGGAAATTCAG
AAAGGAGTATTTGAGGTGAAATCCACAAATGGGGATACCTTCTTAGGTGGGGAAGACTTTGACCAGGCCTTGCTA
CGGCACATTGTGAAGGAGTTCAAGAGAGAGACAGGGGTTGATTTGACTAAAGACAACATGGCACTTCAGAGGGTA
CGGGAAGCTGCTGAAAAGGCTAAGTGTGAACCTCTCCTCATCTGTGCAGACTGACATCAATTTGCCCTATCTTACA
ATGGATTCTTCTGGACCCAAGCATTGAATATGAAGTTGACCCGTGCTCAATTTGAAGGGATTGTCAGTATCTA
ATCAGAAGGACTATCGCTCCATGCCAAAAGCTATGCAAGATGCAGAAAGTCAGCAAGAGTGACATAGGAGAAGTG
ATTCTTGTGGGTGGCATGACTAGGATGCCAAGGTTTACGAGACTGTACAGGATCTTTTGGCAGAGCCCCAAGT
AAAGCTGTCAATCCTGATGAGGCTGTGGCCATTGGAGCTGCCATTGAGGGAGGTGTGTTGGCCGGCGATGTCACG
GATGTGCTGCTCCTTGATGTCACTCCCCTGTCTCTGGGTATTGAACTCTAGGAGGTGTCTTTACCAAACCTTATT
AATAGGAATACCACTATTCCAACCAAGAAGAGCCAGGTATTCTCTACTGCCGCTGATGGTCAAACGCAAGTGGA
ATTAAAGTGTGTGAGGTTGAAAGAGAGATGGCTGGAGACAACAACTCCTTGACAGTTTACTTTGATTGGAATT
CCACCAGCCCCCTCGTGGAGTTCTTCAGATTGAAGTTACATTTGACATTGATGCCAATGGGATAGTACATGTTTCT
GCTAAAGATAAAGGCACAGGACGTGAGCAGCAGATTGTAATCCAGTCTTCTGGTGGATTAAGCAAAGATGATATT
GAAAATATGGTTAAAAATGCAGAGAAATATGCTGAAGAAGACCGGGCGAAAAGGAACGAGTTGAAGCAGTTAAT
ATGGCTGAAGGAATCATTACGACACAGAAACCAAGATGGAAGAATTCAAGGACCAATTACCTGCTGATGAGTGC
AACAAGCTGAAAGAAGAGATTTCCAAAATGAGGGAGCTCCTGGCTAGAAAAGACAGCGAAACAGGAGAAAATATT
AGACAGGCAGCATCCTCTCTTCAGCAGGCATCATTGAAGCTGTTTCGAAATGGCATACAAAAAGATGGCATCTGAG
CGAGAAGGCTCTGGAAGTTCTGGCACTGGGGAACAAAAGGAAGATCAAAAGGAGGAAAAACAGTAAATAATAGCAG
AAATTTTGAAGCCAGAAGGACAACATATGAAGCTTAGGAGTGAAGAGACTTCCTGAGCAGAAATGGGCGAACTTC
AGTCTTTTTACTGTGTTTTTGCAGTATTCTATATATAATTTCCCTTAATTTGTAAATTTAGTGACCATTAGCTAGT
GATCATTTAATGGACAGTGATTCTAACAGTATAAAGTTTACAATATTCTATGTCCCTAGCCTGTCAATTTTTTTCAGC
TGATGTAAAAGGAGGTAGGATGAATTGATCATTATAAAGATTTAACTATTTTATGCTGAAGTGACCATATTTTC
AAGGGGTGAAACCATCTCGCACACAGCAATGAAGGTAGTCATCCATAGACTTGAAATGAGACCACATATGGGGAT
GAGATCCTTCTAGTTAGCCTAGTACTGCTGTACTGGCCTGTATGTACATGGGGTCCTTCAACTGAGGCCTTGCAA
GTCAAGCTGGCTGTGCCATGTTTGTAGATGGGGCAGAGGAATCTAGAACAATGGGAACTTAGCTATTTATATTA
GGTACAGCTATTAAAAACAAGGTAGGAATGAGGCTAGACCTTTAACTTCCCTAAGGCATACTTTTCTAGCTACCTT
CTGCCCTGTGTCTGGCACCTACATCCTTGATGATTGTTCTCTTACCCATTCTGGAATTTTTTTTTTTTTTAAATA
AATACAGAAAGCATCTTGAAAAA

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FIGURE 1694

MISASRAAAARLVGAAASRGPTAARHQDSWNGLSHEAFRLVSRRDYASEAIKGAVVGIDLGTTNSCVAVMEGKRA
KVLNAEGARTTPSVVAFTADGERLVGMPAKRQAVTNPNNTFYATKRLIGRRYDDPEVQKDIKNVPFKIVRASNG
DAWVEAHGKLYSPSQIGAFVLMKMKETAENYLGRTAKNAVITVPAYFNDSQRQATKDAGQISGLNVLRVINEPTA
AALAYGLDKSEDKVIAVYDLGGGTFDISILEIQKGVFEVKSTNGDTFLGGEDFDQALLRHIVKEFKRETGVDLTK
DNMALQRVREAAEKAKCELSSSVQTDINLPYLTMDSSGPKHLNMKLTRAQFEGIVTDLIRRTIAPCQKAMQDAEV
SKSDIGEVILVGGMTRMPKVQQTVDLFGRAPSKAVNPDEAVAIGAAIQGGVLAGDVTDVLLLDVTPLSLGIETL
GGVFTKLINRNTTIPTKKSQVFSTAADGQTQVEIKVCQGEREMAGDNKLLGQFTLIGIPPAPRGVPQIEVTFDID
ANGIVHVSADKGTGREQQIVIQSSGGLSKDDIENMVKNAEKYAEEDRRKKERVEAVNMAEGIIHDTETKMEEFK
DQLPADECNKLKEEISKMRELLARKDSETGENIRQAASSLQQASLKLFE MAYKKMASEREGSGSSGTGEQKEDQK
EEKQ

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FIGURE 1695

GAAATGACTGCTGTCCATGCAGGCAACATAAACTTCAAGTGGGATCCTAAAAGTCTAGAGATCAGGACTCTGGCA
GTTGAGAGACTGTTGGAGCCTCTTGTTACACAGGTTACAACCCCTTGTAACACCAATAGTAAAGGGCCCTCTAAT
AAGAAGAGAGGTCGTTCTAAGAAGGCCCATGTTTTGGCTGCATCTGTTGAACAAGCAACTGAGAATTTCTTGGAG
AAGGGGGATAAAATTGCGAAGGAGAGCCAGTTTCTCAAGGAGGAGCTTGTGGCTGCTGTAGAAGATGTTTGGAAA
CAAGGTGATTTGATGAAGGCTGCTGCAGGAGAGTTTCGCAGATGATCCCTGCTCTTCTGTGAAGCGAGGCAACATG
GTTCCGGCAGCTCGAGCTTTGCTCTCTGCTGTTACCCGGTTGCTGATTTTGGCTGACATGGCAGATGTCTACAAA
TTACTTGTTTCAGCTGAAAGTTGTGGAAGATGGTATCTTGAAGTTGAGGAATGCTGGCAATGAACAAGACTTAGGA
ATCCAGTATAAAGCCCTAAAACCTGAAGTGGATAAGCTGAACATTATGGCAGCCAAAAGACAACAGGAATTGAAA
GATGTTGGCCATCGTGATCAGATGGCTGCAGCTAGAGGAATCCTGCAGAAGAACGTTCCGATCCTCTATACTGCA
TCCCAGGCATGCCTACAGCACCCCTGATGTCGCAGCCTATAAGGCCAACAGGGACCTGATATACAAGCAGCTGCAG
CAGGCGGTACAGGCATTTCCAATGCAGCCAGGCCACTGCCTCAGACGATGCCTCAGACACCAGGGTGGAGGA
GGAGGAGAACTGGCATATGCACTCAATAACTTTGACAAACAAATCATTGTGGACCCCTTGAGCTTCAGCGAGGAG
CGCTTTAGGCCCTTCCCTGGAGGAGCGTCTGGAAAGCATCATTAGTGGGGCTGCCTTGATGGCCGACTCGTCCCTGC
ACGCGTGATGACCGTCGTGAGCGAATTGTGGCAGAGTGTAATGCTGTCCGCCAGGCCCTGCAGGACCTGCTTTTCG
GAGTACATGGGCAATGCTGGACGTAAAGAAAGAAAGTGATGCACTCAATTCTGCAATAGATAAAAATGACCAAGAAG
ACCAGGGACTTGCGTAGACAGCTCCGCAAGCTGTCTGAGGACACGTTTCAGATTCTTTCTGGAACCAATGTT
CCACTTTTGGTATTGATTGAAGCTGCAAGAATGGAATGAGAAAGAAGTTAAGGAGTATGCCCAAGTTTTCCGT
GAACATGCCAACAAATTGATTGAGGTTGCCAACTTGGCCTGTTCCATCTCAAATAATGAAGAAGGTGTAAAGCTT
GTTGCAATGTCTGCAAGCCAGTTAGAAGCCCTCTGTCTCAGGTTATTAATGCTGCACTGGCTTTAGCAGCAAAA
CCACAGAGTAACTGGCCCAAGAGAACATGGATCTTTTTAAAGAACAATGGGAAAAACAAGTCCGTGTTCTCACA
GATGCTGTCTGATGACATTACTTCCATTGATGACTTCTTGGCTGTCTCAGAGAATCACATTTTGAAGATGTGAAC
AAATGTGTCTATTGCTCTCCAAGAGAAGGATGTGGATGGCCTGGACCGCACAGCTGGTGCAATTCGAGGCCGGGCA
GCCCGGGTCATTACGTAGTCACCTCAGAGATGGACAACCTATGAGCCAGGAGTCTACACAGAGAAGGTTCTGGAA
GCCACTAAGCTGCTCTCCAACACAGTCATGCCACGTTTTACTGAGCAAGTAGAAGCAGCCGTGGAAGCCCTCAGC
TCGGACCCTGCCCAGCCCATGGATGAGAATGAGTTTATCGATGCTTCCCGCCTGGTATATGATGGCATCCGGGAC
ATCAGGAAAGCAGTGCTGATGATAAGGACCCCTGAGGAGTTGGATGACTCTGACTTTGAGACAGAAGATTTTGAT
GTCAGAAGCAGGACGAGCGTCCAGACAGAAGACGATCAGCTGATAGCTGGCCAGAGTGCCCGGGCGATCATGGCT
CAGCTTCCCCAGGAGCAAAAAGCGAAGATTGCGGAACAGGTGGCCAGCTTCCAGGAAGAAAAGAGCAAGCTGGAT
GCTGAAGTGTTCAAATGGGACGACAGTGGCAATGACATCATTGTGCTGGCCAAGCAGATGTGCATGATTATGATG
GAGATGACAGACTTTACCCGAGGTAAAGGACCACTCAAAAATACATCGGATGTCTCAGTGCTGCCAAGAAAATT
GCTGAGGCAGGATCCAGGATGGACAAGCTTGGCCGCACCATTGCAGACCATTGCCCGACTCGGCTTGCAAGCAG
GACCTGCTGGCCTACCTGCAACGCATCGCCCTCTACTGCCACCAGCTGAACATCTGCAGCAAGGTCAAGGCCGAG
GTGCAGAATCTCGGCGGGGAGCTTGTGCTCTTGGGGTGGACAGCGCCATGTCCCTGATCCAGGCAGCCAAAGAAC
TTGATGAATGCTGTGGTGACAGAGTGAAGGCATCTACGTGCGCTCTACCAAATACCAAAGTACAGGGGTATG
GCTTCCCTCAACCTTCTGCTGTGTATGGAAGATGAAGGCACCAGAGAAAAAGCCATTGGTGAAGAGAGAGAAA
CAGGATGAGACACAGACCAAGATTAAACGGGCATCTCAGAAGAAGCACGTGAACCCGGTGCAGGCCCTCAGCGAG
TTCAAAGCTATGGACAGCATCTAAGTCTGCCAGGCCGGCCGCCCCACCCCTCGGGGCTCCTGAATATCAGTCA
CTGTTCTGCTCACTCAAATGAATTTGCTAAATAACAACACTGATACTAGATTCCACAGGGAAATGGGCAGACTGAACC
AGTCCAGGTGGTGAATTTTCCAAGAACATAGTTTAAAGTTGATTAAAAATGCTTTTAGAATGCAGGAGCCTACTTC
TAGCTGTATTTTTTGTATGCTTAAATAAAAAATAAAAATTCATAACCAAAGAGAATCCACATTAGCTTGTAGTA
ATGCTCTGACCAAGCCGAGATGCCATTCTCTTAGTGATGGCGCGCTTAGGGTTTGAGAGAAGGGAATTTGGCTC
AACTTCAGTTGAGAGGGTGCAGTCCAGACAGCTTGACTGCTTTTAAATGACCAAAGATGACCTGTGGTAAGCAAC
CTGGGCATCTTAGGAAGCAGTCCCTGGAGAAGGCATGTTCCAGAAAGGTCTCTGGAGGGACAAACTCACTCAGT
AAAACATAATGTATCATGAAGAAAAGTATTCTCTATGACATGAAATGAAAATTTAATGCATTGTTATAATTAC
TAATGTACGCTGCTGCAGGACATTAATAAAGTTGCTTTTTTAGGCTACAGTGCTCGATGCCATAATCAGAACAC
ACTTTTTTCTCTTTCTCCAGCTTCAAATGCAAATTCATCATTGGGCTCACTTCTAATAACTGCAGTGTTTCC
CGCCTTGGGCTTGCA

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FIGURE 1696

MTAVHAGNINFKWDPKSLEIRTLAVERLLEPLVTQVTTLVNTNSKGPSNKKRGRSKKAHVLAASVEQATENFLEK
GDKIAKESQFLKEELVAAVEDVRKQGDLMKAAAGEFADDPCCSVKRGNMVRAARALLSAVTRLLILADMADVYKL
LVQLKVVEDGILKLRNAGNEQDLGIQYKALKPEVDKLNIMAARKQQLKDVGHRDQMAAARGILQKNVPILYTAS
QACLQHPDVAAYKANRDLIYKQLQQA VTGISNAAQATASDDASQHQQGGGGGELAYALNNFDKQIIVDPLSFSEER
FRPSLEERLESIISGAALMADSSCTRDDRERIVAECNAVRQALQDLLSEYMGNAGRKERSDALNSAIDKMTKKT
RDLRRQLRKAVMDHVSDSFLETNVPLLLVLIEAAKNGNEKEVKEYAQVFREHANKLIEVANLACISNNEEGVKLV
RMSASQLEALCPQVINAALALAAPQSKLAQENMDLFKEQWEKQVRVLTDAVDDITSIDDFLAVSENHILEDVNK
CVIALQEKDVGDLDRTAGAIRGRAARVIHVVTSEMDNYEFGVYTEKVL EATKLLSNTVM PRFTEQVEAAVEALSS
DPAQPM DENE FIDASRLVYDGIRDIRKAVLMIRTPEELDDSD FETEDFDVRSRTSVQTEDDQLIAGQSARAIMAQ
LPQEQKAKIAEQVASFQEEKSKLDAEVSKWDDSGNDIIVLAKQMCMIMMEMTDFTRGKGPLKNTSDVISAAKKIA
EAGSRMDKLGRTIADHCPDSACKQDLLAYLQRIALYCHQLNICKVKAQVQNLGGELVVSQVDSAMSLIQAAKNL
MNAV VQTVKASYVASTKYQKSQGMASLNLPAVSWKMKAP EKKPLVKREKQDETQTKIKRASQKKHVNPVQALSEF
KAMDSI

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FIGURE 1697

GAATTCGGGCGGGGTTTGTACTATCCTCGGTGCTGTGGTGCAGAGCTAGTTCTCTCCAGCTCAGCCGCGTAGGT
TTGGACATATTTACTCTTTTCCCCCAGGTTGAATTGACCAAAGCAATGGTGATGGAGAAGCCTAGTCCCCTGCT
GGTCGGGCGGGAATTTGTGAGACAGTATTACACACTGCTGAACCAGGCCCCAGACATGCTGCATAGATTTTATGG
AAAGAACTCTTCTTATGTCCATGGGGGATTGGATTCAAATGGAAAGCCAGCAGATGCAGTCTACGGACAGAAAGA
AATCCACAGGAAAAGTGATGTCACAAAACCTTACCAACTGCCACACCAAGATTGCGCATGTTGATGCTCATGCCAC
GCTAAATGATGGTGTGGTAGTCCAGGTGATGGGGCTTCTCTCTAACAACAACCAGGCTTTGAGGAGATTTCATGCA
AACGTTTGTCTTGGCTCCTGAGGGGTCTGTTGCAAATAAATTCTATGTTTACAATGATATCTTCAGATACCAAGA
TGAGGTCTTTGGTGGGTTTGTCACTGAGCCTCAGGAGGAGTCTGAAGAAGAAGTAGAGGAACCTGAAGAAAGACA
GCAAACACCTGAGGTGGTACCTGATGATTCTGGAACCTTCTATGATCAGGCAGTTGTCAGTAATGACATGGAAGA
ACATTTAGAGGAGCCTGTTGCTGAACCAGAGCCTGATCCTGAACCAGAACCAGAACAAGAACCTGTATCTGAAAT
CCAAGAGGAAAAGCCTGAGCCAGTATTAGAAGAACTGCCCCTGAGGATGCTCAGAAGAGTTCTTCTCCAGCACC
TGCAGACATAGCTCAGACAGTACAGGAAGACTTGAGGACATTTCTTGGGCATCTGTGACCAGTAAGAATCTTCC
ACCCAGTGGAGCTGTTCCAGTTACTGGGATACCACCTCATGTTGTTAAAGTACCAGCTTCACAGCCCCGTCCAGA
GTC TAAGCCTGAATCTCAGATTCCACCACAAAGACCTCAGCGGGATCAAAGAGTGCGAGAACAACGAATAAATAT
TCTTCCCCAAAGGGGACCCAGACCAATCCGTGAGGCTGGTGAGCAAGGTGACATTGAACCCCGAAGAATGGTGAG
ACACCCTGACAGTCACCAACTCTTCATTGGCAACCTGCCTCATGAAGTGGACAAATCAGAGCTTAAAGATTTCTT
TCAAAGTTATGGAAACGTGGTGGAGTTGCGCATTAAACAGTGGTGGGAAATTACCCAATTTTGGTTTTGTGTGTT
TGATGATTCTGAGCCTGTTTCAAGATCCTTAGCAACAGGCCCATCATGTTTCAAGGTGAGGTCCGTCTGAATGT
CGAAGAGAAGAAGACTCGAGCTGCCAGGGAAGGCGACCGACGAGATAATCGCCTTCGGGGACCTGGAGGCCCTCG
AGGTGGGCTGGGTGGTGGAAATGAGAGGCCCTCCCCGTGGAGGCATGGTGAGAAACCAGGATTGGAGTGGGAAG
GGGGCTTGCGCCACGGCAGTAATCTTCATGGATCTTCATGCAGCCATACAAACCCTGGTTCCAACAGAATGGTG
ATTTTCGACAGCCTTTGGTATCTTGGAGTATGACCCAGTCTGTTATAAACTGCTTAAGTTGTATAATTTTACT
TTTTTTGTGTGTTAATGGTGTGTGCTCCCTCTCCCTCTCTTCCCTTTCTGACCTTTAGTCTTTCACCTCCAATT
TTGTGGAATGATATTTTAGGAATAACGGACTTTTACCCGAATTC

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FIGURE 1698

MVMEKPSPLLVGREFVRQYYTLLNQAPDMLHRFYGKNSSYVHGGLDSNGKPADAVYGQKEIHRKVMSQNFTNCHT
KIRHVDAHATLNDGVVVQVMGLLSNNNQALRRFMQTFVLAPEGSVANKFYVHNDIFRYQDEVFGGFVTEPQEES
EEVEEPEERQQTPEVVPDDSGTFYDQAVVSNDMEEHLEEFVAEPEPDPEPEPEQEPVSEIQEEKPEPVLEETAPE
DAQSSSPAPADIAQTVQEDLRTFSWASVTSKNLPPSGAVPVTGIPPHVVKVPASQPRPESKPESQIPPQRPQRD
QRVREQRINIPPQRGPRPIREAGEQGDIEPRRMVRHPDSHQLFIGNLPHEVDKSELKDFFQSYGNVVELRINSGG
KLPNFGFVVFDDSEPQKVLNRPIMFRGEVRLNVEEKKTRAAREGDRRDNRRLRGPGGPRGGLGGMRGPFRGGM
VQKPGFGVGRGLAPRQ

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FIGURE 1699

GAGAGGCGCTGCTGACACCGCCGCCACACCGCCGCCACACCGCCGCTGCCTCAGTCATGCCGAAGCACGAGTTCT
CTGTGGACATGACCTGTGGAGGCTGTGCTGAAGCTGTCTCTCGGGTCCTCAATAAGCTTGGAGGAGTTAAGTATG
ACATTGACCTGCCCCAACAAGAAGGTCTGCATTGAATCTGAGCACAGCATGGACACTCTGCTTGCAACCCTGAAGA
AAACAGGAAAGACTGTTTCCTACCTTGGCCTTGAGTAGCAGGGGCCTGGTCCCCACAGCCCACAGGATGGACCAA
AGGGGGCAGGATGCTGATCCTCCCGCTGGCTTCCAGACAGACCTGGGACTTGGCAGTCATGCCGGGTGATGGTGT
TCCTGCGGAGACCCTCAGTTGTCCTATTCCTTCCTAGCTTCCCTGCAATAAAATCAAGCTGCTTTTGTGG

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FIGURE 1700

GGAGAGCGCGCTCTGCCTGCCGCCTGCCTGCCTGCCACTGAGGGTTCCCAGCACCATGAGGGCCTGGATCTTCTT
TCTCCTTTGCCTGGCCGGGAGGGCCTTGCGAGCCCCCTCAGCAAGAAGCCCTGCCTGATGAGACAGAGGTGGTGGA
AGAAACTGTGGCAGAGGTGACTGAGGTATCTGTGGGAGCTAATCCTGTCCAGGTGGAAGTAGGAGAATTTGATGA
TGGTGCAGAGGAAACCGAAGAGGAGGTGGTGGCGGAAAATCCCTGCCAGAACCACCACTGCAACACGGCAAGGT
GTGCGAGCTGGATGAGAACAACACCCCCATGTGCGTGTGCCAGGACCCACCAGCTGCCAGCCCCCATTGGCGA
GTTTGAGAAGGTGTGCAGCAATGACAACAAGACCTTCGACTCTTCCTGCCACTTCTTTGCCACAAAGTGCACCCCT
GGAGGGCACCAAGAAGGGCCACAAGCTCCACCTGGACTACATCGGGCCTTGCAAATACATCCCCCCTTGCCTGGA
CTCTGAGCTGACCGAATTCCTCCCTGCGCATGCGGGACTGGCTCAAGAACGTCCTGGTCACCCTGTATGAGAGGGA
TGAGGACAACAACCTTCTGACTGAGAAGCAGAAGCTGCGGGTGAAGAAGATCCATGAGAATGAGAAGCGCCTGGA
GGCAGGAGACCACCCCGTGGAGCTGCTGGCCCCGGGACTTCGAGAAGAACTATAACATGTACATCTTCCCTGTACA
CTGGCAGTTCGGCCAGCTGGACCAGCACCCCATTTGACGGGTACCTCTCCACACCGAGCTGGCTCCACTGCGTGC
TCCCTCATCCCCATGGAGCATTGCACCACCCGCTTTTTTCGAGACCTGTGACCTGGACAATGACAAGTACATCGC
CCTGGATGAGTGGGCCGGCTGCTTCGGCATCAAGCAGAAGGATATCGACAAGGATCTTGTGATCTAAATCCACTC
CTTCCACAGTACCGGATTCTCTCTTTAACCCTCCCCCTTCGTGTTTCCCCCAATGTTTAAAATGTTTGGATGGTTT
GTTGTTCTGCCTGGAGACAAGGTGCTAACATAGATTTAAGTGAATACATTAACGGTGCTAAAAATGAAAATTCTA
ACCCAAGACATGACATTCTTAGCTGTAACCTTAACCTATTAAGGCCTTTTCCACACGCATTAATAGTCCCATTTTC
TCTTGCCATTTGTAGCTTTGCCCATTTGCTTATTGGCACATGGGTGGACACGGATCTGCTGGGCTCTGCCTTAAA
CACACATTGCAGCTTCAACTTTTCTCTTTAGTGTTCTGTTTGAACTAATACTTACCGAGTCAGACTTTGTGTTC
ATTTCAATTCAGGGTCTTGGCTGCCTGTGGGCTTCCCCAGGTGGCCTGGAGGTGGGCAAAGGGAAGTAACAGACA
CACGATGTTGTCAAGGATGGTTTTTGGGACTAGAGGCTCAGTGGTGGGAGAGATCCCTGCAGAACCCACCAACCAG
AACGTGGTTTGCCTGAGGCTGTAACCTGAGAGAAAAGATTCTGGGGCTGTGTTATGAAAATATAGACATTCTCACAT
AAGCCCAGTTCATCACCATTTCCTCCTTTACCTTTTCACTGCAGTTTCTTTTACATTAGGCTGTTGGTTCAAACCT
TTTGGGAGCACGGACTGTCAGTTCTCTGGGAAGTGGTCAGCGCATCCTGCAGGGCTTCTCCTCCTCTGTCTTTTG
GAGAACCAGGGCTCTTCTCAGGGGCTCTAGGGACTGCCAGGCTGTTTCAGCCAGGAAGGCCAAAATCAAGAGTGA
GATGTAGAAAAGTTGTAAAATAGAAAAAGTGGAGTTGGTGAATCGGTTGTTCTTTCTCATTATTAATCAAGAGAACTTCAAAG
ATAAGGTTTTTTAGCATGTTCTCCTTTTCTTACCCCTCCCCTTTTTTCTTCTATTAATCAAGAGAACTTCAAAG
TTAATGGGATGGTCGGATCTCACAGGCTGAGAACTCGTTCACCTCCAAGCATTTTCATGAAAAAGCTGCTTCTTAT
TAATCATACAACTCTCACCATGATGTGAAGAGTTTCACAAATCCTTCAAATAAAAAGTAATGACTTAGAACT
G

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FIGURE 1701

GCCACGTGTCCGGCTCGGAGCCACGGCTGTCCTCCCGGTCCGCCCCGCGCTGCGGTTGCTGCTGGGCTAACGGG
CTCCGATCCAGCGAGCGCTGCGTCCTCGAGTCCCTGCGCCCGTGCCTCCGTCTGCGACCCGAGGCTCCGCTGCG
CGTGGATTCTGCTGCGAACCGGAGACCATGGCCAAACCAGCACAGGGTGCCAAGTACCGGGGCTCCATCCATGAC
TTCCCAGGCTTTGACCCCAACCAGGATGCCGAGGCTCTGTACACTGCCATGAAGGGCTTTGGCAGTGACAAGGAG
GCCATACTGGACATAATCACCTCACGGAGCAACAGGCAGAGGCAGGAGGTCTGCCAGAGCTACAAGTCCCTCTAC
GGCAAGGACCTCATTGCTGATTTAAAGTATGAATTGACGGGCAAGTTTGAACGGTTGATTGTGGGCTTGATGAGG
CCACCTGCCTATTGTGATGCCAAAGAAATTAAAGATGCCATCTCGGGCATTGGCACTGATGAGAAGTGCTCATT
GAGATCTTGGCTTCCCGGACCAATGAGCAGATGCACCAGCTGGTGGCAGCATACAAAGATGCCTACGAGCGGGAC
CTGGAGGCTGACATCATCGGCGACACCTCTGGCCACTTCCAGAAGATGCTTGTGGTCCCTGCTCCAGGGAACCAGG
GAGGAGGATGACGTAGTGAGCGAGGACCTGGTACAACAGGATGTCCAGGACCTATACGAGGCAGGGGAACAGAA
TGGGGAACAGATGAAGCCCAGTTCATTTACATCTTGGGAAATCGCAGCAAGCAGCATCTTCGGTTGGTGTTCGAT
GAGTATCTGAAGACCACAGGGAAGCCGATTGAAGCCAGCATCCGAGGGGAGCTGTCTGGGGACTTTGAGAAGCTA
ATGCTGGCCGTAGTGAAGTGTATCCGGAGCACCCCGGAATATTTTGCTGAAAGGCTCTTCAAGGCTATGAAGGGC
CTGGGGACTCGGGACAACACCCCTGATCCGCATCATGGTCTCCCGTAGTGAGTTGGACATGCTCGACATTCGGGAG
ATCTTCCGGACCAAGTATGAGAAGTCCCTCTACAGCATGATCAAGAATGACACCTCTGGCGAGTACAAGAAGACT
CTGCTGAAGCTGTCTGGGGGAGATGATGATGCTGTGGCCAGTCTTCCCGGAGGCAGCGCAGGTGGCCTATCAG
ATGTGGGAACCTTAGTGACGTGGCCCGAGTAGAGCTGAAGGGAAGTGTGCGCCAGCCAATGACTTCAACCCTGAC
GCAGATGCCAAAGCGCTGCGGAAAGCCATGAAGGGACTCGGGACTGACGAAGACACAATCATCGATATCATCAGC
CACCGCAGCAATGTCCAGCGGCAGCAGATCCGGCAGACCTTCAAGTCTCACTTTGGCCGGGACTTAATGACTGAC
CTGAAGTCTGAGATCTCTGGAGACCTGGCAAGGCTGATTCTGGGGCTCATGATGCCACCGGCCATTACGATGCC
AAGCAGTTGAAGAAGGCCATGGAGGGAGCCGGCACAGATGAAAAGGCTCTTATTGAAATCCTGGCCACTCGGACC
AATGCTGAAATCCGGGCCATCAATGAGGCCTATAAGGAGGACTATCACAAGTCCCTGGAGGATGCTCTGAGCTCA
GACACATCTGGCCACTTCAGGAGGATCCTCATTCTCTGGCCACGGGGCATCGTGAGGAGGGAGGAGAAAACCTG
GACCAGGCACGGGAAGATGCCCAGGTGGCTGCTGAGATCTTGGAAATAGCAGACACACCTAGTGAGACAAAACCT
TCCTTGAGACACGTTTTATGACGATCCTGTGTACCCGGAGCTATCCGCACCTCCGGAGAGTCTTCAGGAGTTC
ATCAAGATGACCAACTATGACGTGGAGCACACCATCAAGAAGGAGATGTCTGGGGATGTCAGGGATGCATTTGTG
GCCATTGTTCAAAGTGTCAAGAACAAGCCTCTCTTCTTTGCCGACAACTTTACAAATCCATGAAGGGTGCTGGC
ACAGATGAGAAGACTCTGACCAGGATCATGGTATCCCGCAGTGAGATTGACCTGCTCAACATCCGGAGGGAATTC
ATTGAGAAATATGACAAGTCTCTCCACCAAGCCATTGAGGGTGACACCTCCGGAGACTTCCTGAAGGCCTTGCTG
GCTCTCTGTGGTGGTGAGGACTAGGGCCACAGCTTTGGCGGGCACTTCTGCCAAGAAATGGTTATCAGCACCAGC
CGCCATGGCCAAGCCTGATTGTTCCAGCTCCAGAGACTAAGGAAGGGGCAGGGGTGGGGGGAGGGGTTGGGTTGG
GCTCTTATCTTCAGTGGAGCTTAGGAAACGCTCCCACTCCCAACGGGCCATCGAGGGCCAGCACGGCTGAGCGGC
TGAAAAACCGTAGCCATAGATCCTGTCCACCTCCACTCCCTCTGACCCTCAGGCTTTCCAGCTTCTCCCTT
GCTACAGCCTCTGCCCTGGTTTGGGCTATGTCAGATCCAAAAACATCCTGAACCTCTGTCTGT

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FIGURE 1702

GTCGACCCACGCGTCCGTGCCAGTCTCCGGGACTTTCCAGGGGTGGGGCGGCGTGTCCGGGCCCCCGGCACTT
CCTCGTCCTCGGCCCCGGGTGCCCTGCCCCGTCCAGGAGCCCTAGGAGTGCTACGGGGGGCCGGAGCCTTGCCCG
GGCCGCTGCCCCGTCCCTGGATTTCGGGGCTGGACGCAGCAAGCGGGGCGCTGTGTCCCCAAGCTCCCCGTCTCG
CAGCGGGCACAGGCAGGGGCTGAGCTACCCTCATGGAAGGGAGAGGACCGTACCGGATCTACGACCCTGGGGGCA
GCGTGCCCTCAGGAGAGGCATCCGCAGCTTTTGAGCGCCTAGTGAAGGAGAATTCCCGGCTGAAGGAAAAAATGC
AAGGGATAAAGATGTTAGGGGAGCTTTTGGAAGAGTCCCAGATGGAAGCGACCAGGCTCCGGCAGAAGGCAGAGG
AGCTAGTGAAGGACAACGAGCTGCTCCCACCACCTTCTCCCTCCTTGGGCTCCTTCGACCCCCCTGGCTGAGCTCA
CAGGAAAGGACTCAAATGTCACAGCATCTCCACAGCCCCCTGCATGCCCCAGTGACAAGCCAGCACCAGTCCAGA
AGCCTCCATCCAGTGGCACCTCCTCTGAATTTGAAGTGGTCACTCCTGAGGAGCAGAATTCACCAGAGAGCAGCA
GCCATGCCAATGCGATGGCGCTGGGCCCCCTGCCCCGTGAGGACGGCAACCTGATGCTGCACCTGCAGCGCCTGG
AGACCACGCTGAGTGTGTGTGCCGAGGAGCCGGACCACGGCCAGCTCTTCACCCACCTGGGCCGCATGGCCCTGG
AGTTCAACCGACTGGCATCCAAGGTGCACAAGAATGAGCAGCGCACCTCCATTCTGCAGACCCTGTGTGAGCAGC
TTCGGAAGGAGAACGAGGCTCTGAAGGCCAAGTTGGATAAGGGCCTGGAACAGCGGGATCAGGCTGCCGAGAGGC
TGCGGGAGGAAAAATTTGGAGCTCAAGAAGTTGTTGATGAGCAATGGCAACAAAGAGGGTGGCTCTGGGCGGCCAG
GCTCACCGAAGATGGAAGGGACAGGCAAGAAGGCAGTGGCTGGACAGCAGCAGGCTAGTGTGACGGCAGGTAAGG
TCCCAGAGGTGGTGGCCTTGCGCGCACCCGAGAAGAAGGTGAAGATGCTGGAGCAGCAGCGCAGTGAGCTGCTGG
AAGTGAACAAGCAGTGGGACCAGCATTTCGGGTCCATGAAGCAGCAGTATGAGCAGAAGATCACTGAGCTGCGTC
AGAAGCTGGCTGATTTCGAGAAGCAGGTGACTGACCTGGAGGCCGAGCGGGAGCAGAAGCAGCGTGACTTTGACC
GCAAGCTCCTCCTGGCCAAGTCCAAGATTGAAATGGAGGAGACCGACAAGGAGCAGCTGACAGCAGAGGCCAAGG
AGCTGCGCCAAAAGGTCAAGTACCTGCAGGATCAGCTGAGCCCACTACCCGACAGCGTGAGTACCAGGAAAAGG
AGATCCAGCGGCTCAACAAGGCCCTGGAGGAAGCACTGAGCATCCAAACCCCGCCATCATCTCCACCAACAGCAT
TTGGGAGCCCAGAAGGAGCAGGGGCCCTCCTAAGGAAACAGGAGCTGGTCACGCAGAATGAGTTGCTGAAACAGC
AGGTGAAGATCTTCGAGGAGGACTTCCAGAGGGAGCGCAGTGATCGTGAGCGCATGAATGAGGAGAAGGAAGAGC
TGAAGAAGCAAGTGGAGAAGCTGCAGGCCCAGGTACCCCTGTCAAATGCCAGCTAAAAGCATTCAAAGATGAGG
AGAAGGCAAGAGAAGCCCTCAGACAGCAGAAGAGGAAAGCAAAGGCCTCAGGAGAGCGTTACCATGTGGAGCCCC
ACCCAGAACATCTCTGCGGGGCCCTACCCCTACGCCTACCCGCCCATGCCAGCCATGGTGCCACACCATGGCTTCG
AGGACTGGTCCCAGATCCGCTACCCCCCTCCCCCATGGCCATGGAGCACCCGCCCCCACTCCCCAACTCGCGCC
TCTTCCATCTGCCGGAATACACCTGGCGTCTACCCTGTGGAGGGGTTGAAATCCAAATCAGAGCTCCCAAGTGA
TGGACCCTCCCACAGCCAGGCCTACAGAACCAGAGTCTCCAAAAAATGACCGTGAGGGGCCTCAGTGAGACCAGA
TTGTGTCATTTGGCTCCACCTTCATCTTGAGAGCCAGCTGATCTCAATTGCCAAAACTAGAAGCCACTTGCAC
GGTGTGGCCAGAGCCTCAGCTGGATGAGAGGCTGAGATGGGTGGCCAGCTTGTACACCAGTCCCTGAACTGAGCT
GTTTACAGGACTGGGGAGGCTCCACCCAGAAGGCTTTTCAATTGTACTCTGCTGGGAGTGACTGGGAAAACTCCT
TCCCTGCTGCTGAGTGGAGAGAGGCCTCATCCGGCTTTGACCCCCATCCTTGAGAAGCCTCCAGGAGCAGCAAT
CCTAAGAGTGGGAGGCAGCCAAGACCCCTTCCCTTCAAAAACCTCCCGGAAGTGGTTTCAGGCCCTCTAGTTGCCA
TGACCAATTTGTGTGTGTGTTTAAATTTTTGCTTCAAGCTCTGTAGCAGGACCTGCCCCACGCACACCCCTACCC
TCTGTGAGGAGCTGTGGGAAGTGTGGGTTTGTCTCCAGAACAGAAGAGAATGATGGATATTCTGGCTCTGGGGCC
CTCTCCACCACCACTCACAGTAGCCTTGCTGAAGCCATCACAGATGGGAGAAGGCCATGCCAGCCACGTCCGCCG
AGGGGCGCCAGCCTGAAGCTGCCAGGCCCTGAGGTTTACAGCCCTGGACCCCATAGCTGGAGGCCTGTGGTGCCAG
AAGCCCAGATTAGGGTGGCTGTCCATCCCTGGATAGCTATTTGCACGAATCATGGACATAAATCCAAGTTG

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FIGURE 1703

MEGRGPYRIYDPGGSVPSGEASAAFERLVKENSRLKEKMQGIKMLGELLEESQMEATRLRQKAEELVKDNELLPP
PSPSLGSFDPLAELTGKDSNVTASPTAPACPSDKPAPVQKPPSSGTSSEFEVVTPEEQNSPESSSHANAMALGPL
PREDGNLMLHLQRLETTLSVCAEEPDPHQLFTHLGRMALEFNRLASKVHKNEQRTSILQTLCEQLRKENEALKAK
LDKGLEQRDQAAERLREENLELKKLLMSNGNKEGASGRPGSPKMEGTGKKAVAGQQQASVTAGKVPEVVALGAPE
KKVKMLEQQRSELLEVNKQWDQHFRSMKQQYEQKITELRQKLADLQKQVTDLEAEREQKQORDFDRKLLAKSKIE
MEETDKEQLTAEAKELRQKVYQLQDQLSPLTRQREYQEKEIQRLNKALEEALSIQTPPSSPPTAFGSPEGAGALL
RKQELVTQNELLKQQVKIFEEDFQRERSDRERMNEEKEELKKQVEKLQAQVTLNAQLKAFKDEEKAREALRQQK
RKAKASGERYHVEPHPEHLGAYPYAYPPMPAMVPHHGFEWDSQIRYPPPPMAMEHPPPLPNSRLFHLPEYTWRL
PCGGVRNPQNQSSQVMDPPTARPTESPKNDRGPQ

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FIGURE 1704

AGCCAAAAGAGGAAGGGACCGGCCTCCACGTCCACAGGGACCTGACTTCCACCTCTCTGCCCAGATTGCTTAT
GTCAGTGTGCGCCCGGGACGGGGAGGTGGGGAGCTGAGGGCAAGTCGCGCCCGCCCTGAAATCCCAGCCGCCTA
GCGATTGGCTGCAAGGGTCTCGGCTTGCCGCGGATTAATCACACCCGAGGGCTTGAAAGGTGGCTGGGAGCGCC
GGACACCTCAGACGGACGGTGGCCAGGGATCAGGCAGCGGCTCAGGCGACCCTGAGTGTGCCCCACCCCGCCAT
GGCCCGGCTGCTGCAGGCGTCTGCTGCTTTCCCTGCTCCTGGCCGGCTTCGTCTCGCAGAGCCGGGGACAAGA
GAAGTCGAAGATGGACTGCCATGGTGGCATAAGTGGCACCATTACGAGTACGGAGCCCTCACCATTGATGGGGA
GGAGTACATCCCTTCAAGCAGTATGCTGGCAAATACGTCTCTTTGTCAACGTGGCCAGCTACTGAGGCCTGAC
GGCCAGTACATTGAACTGAATGCACTACAGGAAGAGCTTGCAACATTGCGGTCTGGTCATTCTGGGCTTTCCCTG
CAACCAATTTGGAACAGGAACCAGGAGAGAACTCAGAGATCCTTCCCTACCTCAAGTATGTCCGACCAGGTGG
AGGCTTTGTCCCTAATTTCCAGCTCTTTGAGAAAGGGGATGTCAATGGAGAGAAAGAGCAGAAATCTACACTTT
CCTAAAGAACTCCTGTCTCCACCTCGGAGCTCCTGGGTACATCTGACCGCCTCTTCTGGGAACCCATGAAGGT
TCACGACATCCGCTGGAACCTTGAGAAGTTCTGGTGGGGCCAGATGGTATACCCATCATGCGCTGGCACCACCG
GACCACGGTCAGCAACGTCAAGATGGACATCCTGTCTACATGAGGCGGCAGGCAGCCCTGGGGGTCAAGAGGAA
GTAACTGAAGGCCGTCTCATCCCATGTCCACCATGTAGGGGAGGGACTTTGTTTCAGGAAGAAATCCGTGTCTCCA
ACCACACTATCTACCCATCACAGACCCCTTTCCCTATCACTCAAGGCCCCAGCCTGGCACAAATGGATGCATACAG
TTCTGTGTACTGCCAGGCATGTGGGTGTGGGTGCAATGTGGGTGTTTACACACATGCCTACAGGTATGCGTGATT
GTGTGTGTGTGCATGGGTGTACAGCCACGTGTCTACCTATGTGTCTTTCTGGGAATGTGTACCATCTGTGTGCCT
GCAGCTGTGTAGTGTGGACAGTGACAACCCCTTCTCTCCAGTTCTCCACTCCAATGATAATAGTTCACCTTATAC
CTAAACCCAAAGGAAAAACAGCTCTAGGTCCAATTGTTCTGCTCTAACTGATACCTCAACCTTGGGGCCAGCAT
CTCCCACTGCCTCCAAATATTAGTAACTATGACTGACGTCCCCAGAAGTTTCTGGGTCTACCACACTCCCCAACCC
CCCCACTCCTACTTCTGAAGGGCCCTCCCAAGGCTACATCCCCACCCACAGTTCTCCCTGAGAGAGATCAACC
TCCCTGAGATCAACCAAGGCAGATGTGACAGCAAGGGCCACGGACCCCATGGCAGGGGTGGCGTCTTCATGAGGG
AGGGGCCCAAAGCCCTTGTGGGCGGACCTCCCTGAGCCTGTCTGAGGGGCCAGCCCTTAGTGCATTACAGGCTAA
GGCCCTGGGCAGGGATGCCACCCCTGCTCCTTCGGAGGACGTGCCCTCACCCTCACTGGTCCACTGGCTTGAG
ACTCACCCCGTCTGCCAGTAAAAGCCTTTCTGCAGCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1705

MARLLQASCLLSLLLAGFVSQSRGQEKSKMDCHGGISGTIYEGALTIDGEEYIPFKQYAGKYVLFVNVASYEGL
TGQYIELNALQEELAPFGLVILGFPCNQFGKQEPGENSEILPTLKYVRPGGGFVPNFQLFEKGDVNGEKEQKFYT
FLKNSCPPTSELLGTSDRLFWEPMKVHDIRWNFEKFLVGPDGIPIMRWHRRTVSNVKMDILSYMRRQAALGVKR
K

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FIGURE 1706

AGCCTCGGGGCTTGACGGGATTGTGGCGGTCCTCTCTCCCAATTCGGAAGCTACAGCTACCTCCGGACGCTCTCA
AGATGCGCGACCTCTCTGGGTTCCAACACCTACAACAGGCAGAACTGGGAGGATGCGGACTTCCCCATTCTGTGCC
AGACATGTCTTGGAGAAAACCCATATATCCGAATGACCAAAGAAAAGTATGGGAAGGAATGCAAAATCTGTGCCA
GGCCATTACAGTGTTTTCGCTGGTGCCCTGGAGTCCGCATGCGTTTTCAAGAAGACTGAAGTGTGCCAAACCTGCA
GTAAATTGAAGAATGTCTGTGACACCTGCCTCTTAGACCTAGAGTATGGCCTGCCCATCCAGGTTTCGTGACGCAG
GATTGTCTTTTAAAGATGACATGCCAAAGTCAGATGTCAACAAAGAGTACTATACACAGAATATGGAGAGAGAGA
TTTCTAACTCTGATGGAACACGGCCAGTTGGCATGCTGGGGAAAGCCACATCTACCAGTGACATGCTGCTCAAAC
TGGCCCGGACCACACCCTACTACAAAAGGAATCGACCCACATTTGCTCCTTCTGGGTGAAAGGAGAGTGTAAGA
GAGGAGAGGAATGTCCATACAGACATGAGAAGCCTACAGATCCAGATGACCCCTTGCTGATCAGAATATTAAAG
ACCGTTATTACGGAATCAATGATCCTGTAGCTGACAAGCTTCTAAAGCGGGCTTCAACAATGCCCTCGGCTGGACC
CACCAGAGGATAAACTATCACCACACTATATGTTGGTGGTCTAGGTGATACCATTACTGAGACAGATTTAAGAA
ATCATTCTTACCAGTTTCGGAGAGATCCGGACGATCACTGTTGTGTCAGAGACAGCAGTGTGCTTTCATCCAGTTTG
CCACACGGCAGGCTGCAGAAGTGGCTGCTGAGAAGTCCTTTAATAAGTTGATTGTAAATGGCCGCAGACTGAATG
TGAAATGGGGAAGATCCAGGCAGCCAGAGGAAAAGAAAAGAGAAAGATGGAATACAGACTCTGGGATCAAAC
TAGAACCTGTTCCAGGATTGCCAGGAGCTCTTCTCTCTCTCTGCAGCAGAAGAAGAAGCCTCTGCCAACTACT
TCAACTTGCCCCCAAGTGGTCTCCAGCTGTGGTGAACATTGCTCTGCCACCGCCCCCTGGCATTGCTCCACCCC
CACCCCCAGTTTTTGGGCCACACATGTTCCACCCAATGGGACCACCCCCTCCTTTCATGCGGGCTCCAGGACCAA
TCCACTATCCTTCTCAGGACCCTCAGAGGATGGGAGCTCATGCTGGAAAACACAGCAGCCCCCTAGCACCTTGTC
CCACTCTGGGGCTCTGTGGAAGAAAGGGCACTTAAACTCCCAGTAAATCTTGGAATAAATATATTTTTCTTCC
CTTGTAAGTTTCCATGGTAGCTGAATGTGCTCAGATGTGAGCAGTCAGAGACTGACAGCCATGCTTTCCTATACTT
GTTCAAAGGATCGATGGACCGTAAATAAGCTGCCATTAACACATCTGGTTACTGCTGTAACATGACTAATAAAAC
CGAACGCCTGTTCCCCTTACCCGTGTGGGGGACACGCAGATGAGTGAATTGGAATGTCCAGCAGAGTTACCCCTC
CAATTATATGTTTCAATTTTGTATATTTTTTGGTCGGGGGAAAATTGACCTGCAGTAAAAAACCTTTGACCATT
TTATGTCCATTGGATACTTTCTTTTTATCATCTTAAAAAAGATAACTAGTACTAATCATTGTAGTGGCCTAAG
TGTGATTTAACTCTTGAAGTCACACCCTCCGAAAGATGAGTAGAAACCAGCACCAGCACAGCCCAGATCTTCTCT
TTCTCTCTCTTTCTCATTTTATTCCTAAAGGAATCTGACCATTTTACGTCTCTACGGCCCCAAAAAAGACAAAA
ATAAAAATTCCTTTTTTATTCTGTCAACTGGATGGAAACACAAATTTTCATGGAGCTGTGTACCATCGAAGAAACC
TGGTGTCTGGCATGAAATTACTGTAAAGAACTTCCTGTAAACACGTTCTTTAACAACTGAAATGAAAAGCATT
GGAGCGTCTGAATGAAAGACGTGACCTCCTGCTGGGACTCTGATGGTCTTCAGCATTACCTTCGTGTGTCTTCA
GTGTCTCATTGTATCCCTGCTTCTGTTTGGTCTTAGAGTGTGGATATACTGAATTGTAGATGGTAAAGGAA
ATTTGATGTGTTTTTTGTTTTTAAATAATTAAAACGGGTCAATTTTT

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FIGURE 1707

MATSLGSNTYNRQNWEDADFPILCQTCLGENPYIRMTKEKYGKECKICARPFTVFRWCPCGVRMRFKKTEVCQTCS
KLKNVCQTCLLDLEYGLPIQVRDAGLSFKDDMPKSDVNKEYYTQNMEREISNSDGT RPVGMLGKATSTSDMLLKL
ARTTPYYKRNRPHICSFVVKGECKRGEPCPYRHEKPTDPDDPLADQNIKDRYYGINDPVADKLLKRASTMPRLDP
PEDKTITTLTVGGGLGDTITETDLRNHFYQFGEIRITITVVQRQOCAFIQFATRQAAEVAAEKSFNKLIVNGRRLNV
KWGRSQAARGKEKEKDGT TDSGIKLEPVPGLP GALPPPPAAEEEEASANYFNLPPSGPPAVVNIALPPPPGIAPPP
PPGFGPHMFHPMGPPPPFMRAPGPIHYP SQDPQRMGAHAGKHSSP

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FIGURE 1708

CTCCGCCCTCTCCCACTCTCTCTTTCCGGTGTGGAGTCTGGAGACGACGTGCAGAAATGGCACCTCGAAAGGGGA
AGGAAAAGAAGGAAGAACAGGTCATCAGCCTCGGACCTCAGGTGGCTGAAGGAGAGAATGTATTTGGTGTCTGCC
ATATCTTTGCATCCTTCAATGACACTTTTGTCCATGTCACTGATCTTTCTGGCAAGGAAACCATCTGCCGTGTGA
CTGGTGGGATGAAGGTAAAGGCAGACCGAGATGAATCCTCACCATATGCTGCTATGTTGGCTGCCCAGGATGTGG
CCCAGAGGTGCAAGGAGCTGGGTATCACCGCCCTACACATCAAACCTCCGGGCCACAGGAGGAAATAGGACCAAGA
CCCCTGGACCTGGGGCCAGTCGGCCCTCAGAGCCCTTGCCCGCTCGGGTATGAAGATCGGGCGGATTGAGGATG
TCACCCCATCCCCTCTGACAGCACTCGCAGGAAGGGGGGTCGCCGTGCTCGCCGTCTGTGAACAAGATTCTCA
AAATATTTTCTGTTAATAAATTGCCTTCATGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1709

MAPRKGKEKKEEQVISLGPQVAEGENVFGVCHIFASFNDTFVHVTDLSGKETICRVTTGGMKVKADRDESSPYAAM
LAAQDVAQRCKELGITALHIKLRATGGNRTKTPGPGAQSALRALARSGMKIGRIEDVTPIPSDSTRRKGGRRGRRL

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FIGURE 1710

ACCAAGTGGGCGGAGTGGCCTTCTGTGGACGAATCAGATTCTCTCCAGCACCGACTTTAAGAGGCGAGCCGGGG
GGTCAGGGTCCCAGATGCACAGGAGGAGAAGCAGGAGCTGTCTGGGAAGATCAGAAGCCAGTCATGGATGACCAGC
GCGACCTTATCTCCAACAATGAGCAACTGCCCATGCTGGGCGGGCGCCCTGGGGCCCCGGAGAGCAAGTGCAGCC
GCGGAGCCCTGTACACAGGCTTTTCCATCCTGGTGACTCTGCTCCTCGCTGGCCAGGCCACCACCGCTACTTCC
TGTACCAGCAGCAGGGCCGGCTGGACAACTGACAGTCACCTCCCAGAACCTGCAGCTGGAGAACCTGCGCATGA
AGCTTCCCAAGCCTCCCAAGCCTGTGAGCAAGATGCGCATGGCCACCCCGCTGCTGATGCAGGCGCTGCCCATGG
GAGCCCTGCCCCAGGGGCCCCATGCAGAATGCCACCAAGTATGGCAACATGACAGAGGACCATGTGATGCACCTGC
TCCAGAATGCTGACCCCTGAAGGTGTACCCGCCACTGAAGGGGAGCTTCCCGGAGAACCTGAGACACCTTAAGA
ACACCATGGAGACCATAGACTGGAAGGTCTTTGAGAGCTGGATGCACCATTGGCTCCTGTTTGAAATGAGCAGGC
ACTCCTTGGAGCAAAAGCCCACTGACGCTCCACCGAAAGTACTGACCAAGTGCCAGGAAGAGGTCAGCCACATCC
CTGCTGTCCACCCGGGTTTATTGAGGCCCAAGTGCAGACGAGAACGGCAACTATCTGCCACTCCAGTGCTATGGGA
GCATCGGCTACTGCTGGTGTGCTTCCCCAACGGCACGGAGGTCCCCAACACCAGAAGCCGCGGGCACCATAACT
GCAGTGAGTCACTGGAACCTGGAGGACCCGTCTTCTGGGCTGGGTGTGACCAAGCAGGATCTGGGCCCAGTCCCCA
TGTGAGAGCAGCAGAGGCGGTCTTCAACATCCTGCCAGCCCCACACAGCTACAGCTTTCTTGCTCCCTTCAGCCC
CCAGCCCCCTCCCCCATCTCCCACCCGTGTACCTCATCCCATGAGACCCTGGTGCCTGGCTCTTTCGTCACCCCTGG
ACAAGACAAACCAAGTCGGAACAGCAGATAACAATGCAGCAAGGCCCTGCTGCCCAATCTCCATCTGTCAACAGG
GGCGTGAGGTCCCAGGAAGTGGCCAAAAGCTAGACAGATCCCCGTTCCTGACATCACAGCAGCCTCCAACACAAG
GCTCCAAGACCTAGGCTCATGGACGAGATGGGAAGGCACAGGGAGAAGGGATAACCCTACACCCAGACCCAGGC
TGGACATGCTGACTGTCTCTCCCTCCAGCCTTTGGCCTTGGCTTTTCTAGCCTATTTACCTGCAGGCTGAGCC
ACTCTCTTCCCTTTCCCCAGCATCACTCCCCAAGGAAGAGCCAATGTTTTCCACCCATAATCCTTTCTGCCGACC
CCTAGTTCCCTCTGCTCAGCCAAGCTTGTATCAGCTTTCAGGGCCATGGTTCACATTAGAATAAAAGGTAGTAA
TTAG

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FIGURE 1711

ATAAGATCTGTCCCCCAACTCTCCAGATCTGTGACCCACATTCTCTCTCCATAGGTGGAAAAGAGGCTGCTTC
AGGCACCACACCTCAGAAGTCCCGGAAGCCCAAGAAAGGGGCTGGGAACCCCAAGCCTCAACCCTGGCGCTGCA
AAGCAACATCACCCAGAGCAAGAAGAAGAAGCTGGGGGCCGGGAAGGTGGGGAGGCCTCTGTTTCCCCAGA
AAAGACCTCCACGACTTCCAAGGGGAAAGCAAAGAGAGACAAAGCAAGTGGTGATGTCAAGGAGAAGAAAGGGAA
GGGTCTCTTGGCTCCCAAGGGGCCAAGGACGAGCCAGAAGAGGAGCTTCAGAAGGGGATGGGGACGGTTGAAGG
TGGAGATCAAAGCAACCCAAAGAGCAAGAAGGAGAAGAAGAAATCCGACAAGA

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FIGURE 1712A

GAAGGGCAGACAGAGTGTCCAAAAGCGTGAGAGCACGAAGTGAGGAGAAGGTGGAGAAGAGAGAAGAGGAAGAGG
AAGAGGAAGAGAGGAAGCGGAGGGAAGTGCAGGAGGCTAAAAGGGGAAGAAGAGGATCAGCCCAAGGAGGAGGA
AGAGGAAAACAAGACAAACAGCCAGTGCAGAGGAGAGGAACGTGTGTCCAGTGTCCCGATCCCTGCGGAGCTAGT
AGCTGAGAGCTCTGTGCCCTGGGCACCTTGACGCCCTGCACCTGCCTGCCACTTCCCCACCGAGGCCATGGGCCC
AGGAGTTCTGCTGCTCCTGCTGGTGGCCACAGCTTGGCATGGTCAGGGAATCCCAGTGATAGAGCCCAAGTGTCCC
TGAGCTGGTTCGTGAAGCCAGGAGCAACGGTGACCTTGCGATGTGTGGGCAATGGCAGCGTGGAATGGGATGGCCC
CCCATCACCTCACTGGACCCTGTACTCTGATGGCTCCAGCAGCATCCTCAGCACCAACAACGCTACCTTCCAAAA
CACGGGGACCTATCGCTGCACTGAGCCTGGAGACCCCTGGGAGGCAGCGCCGCCATCCACCTCTATGTCAAAGA
CCCTGCCCCGGCCCTGGAACGTGCTAGCACAGGAGGTGGTTCGTGTTTCAGAGGACCAGGACGCACTACTGCCCTGTCT
GCTCACAGACCCGGTGTGGAAGCAGGCGTCTCGCTGGTGCCTGTGCGTGGCCGGCCCCCTCATGCGCCACACCAA
CTACTCCTTCTCGCCCTGGCATGGCTTCACCATCCACAGGGCCAAGTTTCATTAGAGCCAGGACTATCAATGCAG
TGCCCTGATGGGTGGCAGGAAGGTGATGTCCATCAGCATCCGGCTGAAAGTGCAGAAAGTCATCCCAGGGCCCCC
AGCCTTGACACTGGTGCCTGCAGAGCTGGTGGGATTTCAGGGGAGGCTGCCCAGATCGTGTGCTCAGCCAGCAG
CGTTGATGTTAACTTTGATGTCTTCCCTCCAACACAACAACACCAAGCTCGCAATCCCTCAACAATCTGACTTTCA
TAATAACCGTTACCAAAAAGTCCCTGACCCTCAACCTCGATCAAGTAGATTTCCAACATGCCGGCAACTACTCCTG
CGTGGCCAGCAACGTGCAGGGCAAGCACTCCACCTCCATGTTCTTCCGGGTGGTAGAGAGTGCCTACTTGAACCT
GAGCTCTGAGCAGAACCTCATCCAGGAGGTGACCGTGGGGGAGGGGCTCAACCTCAAAGTCATGGTGGAGGCCTA
CCCAGGCCTGCAAGGTTTTAACTGGACCTACCTGGGACCCTTTTCTGACCACCAGCCTGAGCCCAAGCTTGCTAA
TGCTACCACCAAGGACACATACAGGCACACCTTACCCTCTCTCTGCCCCGCTGAAGCCCTCTGAGGCTGGCCG
CTACTCCTTCTGCCCCAGAAACCCAGGAGGCTGGAGAGCTCTGACGTTTGAGCTCACCCCTTCGATACCCCCAGA
GGTAAGCGTCATATGGACATTCATCAACGGCTCTGGCACCTTTTGTGTGCTGCCTCTGGGTACCCCCAGCCCCAA
CGTGACATGGCTGCAGTGCAGTGGCCACACTGATAGGTGTGATGAGGCCCAAGTGTGAGGTCTGGGATGACCC
ATACCCTGAGGTCTGAGCCAGGAGCCCTTCCACAAGGTGACGGTGCAGAGCCTGCTGACTGTTGAGACCTTAGA
GCACAACCAACCTACGAGTGCAGGGCCCAACAGCGTGGGGAGTGGCTCCTGGGCCTTCATACCCATCTCTGC
AGGAGCCACACGCATCCCCCGATGAGTTCCTCTTACACCAGTGGTGGTGCCTGCATGTCCATCATGGCCTT
GCTGCTGCTGCTGCTCCTGCTGCTATTGTACAAGTATAAGCAGAAGCCCAAGTACCAGGTCCGCTGGAAGATCAT
CGAGAGCTATGAGGGCAACAGTTATACTTTTCATCGACCCACGCAGCTGCCTTACAACGAGAAGTGGGAGTTCCC
CCGGAACAACCTGCAGTTTGGTAAGACCCTCGGAGCTGGAGCCTTTGGGAAGGTGGTGGAGGCCACGGCCTTTGG
TCTGGGCAAGGAGGATGCTGTCTGAAGTGGCTGTGAAGATGCTGAAGTCCACGGCCCATGCTGATGAGAAGGA
GGCCCTCATGTCCGAGCTGAAGATCATGAGCCACCTGGGCCAGCAGAGAACATCGTCAACCTTCTGGGAGCCTG
TACCCATGGAGGCCCTGTACTGGTCATCACGGAGTACTGTTGCTATGGCGACCTGCTCAACTTTCTGCGAAGGAA
GGCTGAGGCCATGCTGGGACCCAGCCTGAGCCCCGGCCAGGACCCCGAGGGAGGCGTGCCTATAAGAACATCCA
CCTCGAGAAGAAATATGTCCGAGGGACAGTGGCTTCTCCAGCCAGGGTGTGGACACCTATGTGGAGATGAGGCC
TGTCTCCACTTCTTCAAATGACTCCTTCTCTGAGCAAGACCTGGACAAGGAGGATGGACGGCCCCCTGGAGCTCCG
GGACCTGCTTCACTTCTCCAGCCAAGTAGCCCAGGGCATGGCCTTCTCGCTTCCAAGAATTGCATCCACCGGGA
CGTGGCAGCGCGTAACGTGCTGTTGACCAATGGTCATGTGGCCAAGATTGGGGACTTCGGGCTGGCTAGGGACAT
CATGAATGACTCCAATACATTGTCAAGGGCAATGCCCGCCTGCCTGTGAAGTGGATGGCCCCAGAGAGCATCTT
TGACTGTGTCTACACGGTTCAGAGCGACGTCTGGTCTATGGCATCCTCCTCTGGGAGATCTTCTCACTTGGGCT
GAATCCCTACCTGGCATCCTGGTGAACAGCAAGTTCTATAAACTGGTGAAGGATGGATACCAAATGGCCAGCC
TGCAATTTGCCCCAAAGAATATATACAGCATCATGCAGGCCTGCTGGGCCTTGAGCCCCACCCACAGACCCACCTT
CCAGCAGATCTGCTCCTTCCCTCAGGAGCAGGCCCAAGAGGACAGGAGAGAGCGGGACTATACCAATCTGCCGAG
CAGCAGCAGAAGCGGTGGCAGCGGCAGCAGCAGCAGTGAAGTGGAGGAGAGCTCTAGTGAGCACCTGACCTG
CTGCGAGCAAGGGGATATCGCCCAGCCCTTGCTGCAGCCCAACAACATATCAGTTCTGCTGAGGAGTTGACGACAG
GGAGTACCACTCTCCCCCTCCCAAACTTCAACTCCTCCATGGATGGGGCGACACGGGGAGAACATACAACTCT
GCCTTCGGTCAATTTCACTCAACAGCTCGGCCAGCTCTGAACTTGGGAAGGTGAGGGATTAGGGGAGGTCAGA
GGATCCCACTTCTGAGCATGGGCCATCACTGCCAGTCAGGGGCTGGGGGCTGAGCCCTACCCCCCTCCCTT
ACTGTTCTCATGGTGTGGCCCTGTGTTGCTATGCCAACTAGTAGAACCTTCTTCTTAATCCCCCTTATCTTCA
TGGAATGGACTGACTTTATGCCTATGAAGTCCCCAGGAGCTACACTGATACTGAGAAAACAGGCTCTTTGGGG

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FIGURE 1712B

CTAGACAGACTGGCAGAGAGTGAGATCTCCCTCTCTGAGAGGAGCAGCAGATGCTCACAGACCACACTCAGCTCA
GGCCCCTTGGAGCAGGATGGCTCCTCTAAGAATCTCACAGGACCTCTTAGTCTCTGCCCTATACGCCGCCTTCAC
TCCACAGCCTCACCCCTCCCACCCCCATACTGGTACTGCTGTAATGAGCCAAGTGGCAGCTAAAAGTTGGGGGTG
TTCTGCCCAGTCCCGTCATTCTGGGCTAGAAGGCAGGGGACCTTGGCATGTGGCTGGCCACACCAAGCAGGAAGC
ACAAACTCCCCCAAGCTGACTCATCCTAACTAACAGTCACGCCGTGGGATGTCTCTGTCCACATTAACTAACAG
CATTAAATGC

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FIGURE 1713

TTTTTCCGGCTGGAACCATGGAGGGTGTAGAAGAGAAGAAGAAGGAGGTTCCCTGCTGTGCCAGAAACCCTTAAGA
AAAAGCGAAGGAATTTTCGCAGAGCTGAAGATGAAGCGCCTGAGAAAAGAAGTTTGCCCAAAGATGCTTCGAAAGG
CAAGGAGGAAGCTTATCTATGAAAAAGCAAAGCACTATCACAAAGGAATATAGGCAGATGTACAGGACTGAAATTC
GAATGGCGAGGATGGCAAGAAAAGCTGGCAACTTCTATGTACCTGCAGAACCCAAATTGGCGTTTGTTCATCAGAA
TCAGAGGTATCAATGGAGTGAGCCCAAAGGTTTCGAAAGGTGTTGCAGCTTCTTCGCCTTCGTCAAATCTTCAATG
GAACCTTTGTGAAGCTCAACAAGGCTTCGATTAACATGCTGAGGATTGTAGAGCCATATATTGCATGGGGGTACC
CCAATCTGAAGTCAGTAAATGAAC TAATCTACAAGCGTGGTTATGGCAAATCAATAAGAAGCGAATTGCTTTGA
CAGATAACGCTTTGATTGCTCGATCTCTTGGTAAATACGGCATCATCTGCGTGGAGGATTTGATTCATGAGATCT
ATACTGTTGGAAAACGCTTCAAAGAGGCAAATAACTTCCTGTGGCCCTTCAAATTGTCTTCTCCACGAGGTGGAA
TGAAGAAAAAGACCACCCATTTTGTAGAAGGTGGAGATGCTGGCAACAGGGAGGACCAGATCAACAGGCTTATTA
GAAGAATGAAC TAAGGTGTCTACCATGATTATTTTTCTAAGCTGGTTGGTTAATAAACAGTACCTGCTCTCAAAT
TGG

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FIGURE 1714

ATGGCCGAGGCCAGGAAGCGGCGGGAGCTACTTCCCTGATCTACCACCATCTGCTGCGGGCTGGCTATGTGCGT
GCGGCGCGGGAAGTGAAGGAGCAGAGCGGCCAGTGGGTGGGCCAGAAAGTGTGCTCGCAGGGGCCGAACTTTGT
AATTCCCGCTTCCCTTACCTCCACGCCCTTCCCTGGTAGCGGGTATTTTAAGTTTCCTAAGTCTCCCGCCACGTGG
CTAGGCTCTGCGCGGCCCCCTGGGGCAAGGAGGTTGCTGCGAGTCTCGGGGGTGGATTGCGACCAGCCCCCTCG
GGGAGCGCCTGGAAAAGGGACCCTACAGCCTCTTAGTTGAGCTGGAACCTCAGGCCTTTAGCGATTGTCTGTACT
GAGACGGTCAGCTTTGGTACTCGAACTCGTGGTACAGTCATTTCTTACTTGATTAAATCAACTGTTAATCCGGTA
CTCAGGGTGCTTCCCTGGTGTTCGAATGAAGTGTTCCTGGCTCAGCCCGTAACCTTCTGGACATCTATACACAC
TGGCAACAAACCTCAGAGCTTGGTCGGAAGCGGAAGGCAGAGGAAGATGCGGCACTGCAAGCTAAGAAAACCCGT
GTGTCAGACCCCATCAGCACCTCGGAGAGCTCGGAAGAGGAGGAAGAAGCAGAAGCCGAAACCGCCAAAGCCAGT
AAGAGCCTTGCAGCTTTGGGAACAGGCTATGGAATATTGATTGTTCTAGGTTTCTATGACCCCTTCTCTCCTACT
TTCTATGAAATGGGGGAAGCCCAAAGGTCCCAGTCTCCTAACTCCTGGTGTACGGATTGAATTGTGTTTCCCCA
AAAGGTGTTGTGCTGAGCCTCTGGCTGACAGCTGTGTTTTCTCTGCTCAGCAAAGGCTTTAACCATAAACAGGAG
AAATCGGCCCAGACAGTTGCTGGTACTTTCTGCCCAGTACTACTTCACAGAGTCAGTGTCCAGCTTCCGAACAGC
ATGGAGGCAGCTCTGAGTCATCCGAATCCAGTGGCCCCACAGCCTGCTCAGCTTCGGCTACCTGTCTGGGAC
TGGGCCAAGCCGAGCTTCGTGGCCGACGGGCCCCGGGGAGGCTGGCGAGCAGCCCTCGGCCGCTCCGCCCCAGCCT
CCCCACATCATCTTCATCCTCACGGACGACCAAGGCTACCACGACGTGGGCTACCATGGTTTCAGATATCGAGACC
CCTACGCTGGACAGGCTGGCGGCCAAGGGGGTCAAGTTGGAGAATTATTACATCCAGCCCATCTGCACGCCTTCG
CGGAGCCAGCTCCTCACTGGCAGGTACCAGATCCACACAGGACTCCAGCATTCCATCATCCGCCCCACAGCAGCCC
AACTGCCTGCCCCCTGGACCAGGTGACACTGCCACAGAAGCTGCAGGAGGCAGGTTATTCCACCCATATGGTGGGC
AAGTGGCACCTGGGCTTCTACCGGAAGGAGTGTCTGCCCACCCGTGCGGGCTTCGACACCTTCTGGGCTCGCTC
ACGGGCAATGTGGACTATTACACCTATGACAACTGTGATGGCCCAGGCGTGTGCGGCTTCGACCTGCACGAGGGT
GAGAATGTGGCCTGGGGGCTCAGCGGCCAGTACTCCACTATGCTTTATGCCAGCGCGCCAGCCATATCCTGGCC
AGCCACAGCCCTCAGCGTCCCCTCTTCCCTCTATGTGGCTTCCAGGCAGTACACACACCCCTGCAGTCCCCTCGT
GAGTACCTGTACCGCTACCGCACCATGGGCAATGTGGCCCGGCGGAAGTACGCGGCCATGGTGACCTGCATGGAT
GAGGCTGTGCGCAACATCACCTGGGCCCTCAAGCGCTACGGTTTCTACAACAACAGTGTTCATCATCTTCTCCAGT
GACAATGGTGGCCAGACTTTCTCGGGGGGCAGCAACTGGCCGCTCCGAGGACGCAAGGGCACTTATTGGGAAGGT
GGCGTGGGGGCTAGGCTTTGTCCACAGTCCCCTGCTCAAGCGAAAGCAACGGACAAGCCGGGCACTGATGCAC
ATCACTGACTGGTACCCGACCCTGGTGGGTCTGGCAGGTGGTACCACCTCAGCAGCCGATGGGCTAGATGGCTAC
GACGTGTGGCCGGCCATCAGCGAGGGCCGGGCTCACCACGCACGGAGATCCTGCACAACTTACCCACTCTAC
AACCATGCCCAGCATGGCTCCCTGGAGGGCGGCTTTGGCATCTGGAACACCGCCGTGCAGGCTGCCATCCGCGTG
GGTAGTGGGAAGCTGCTGACAGGAGACCCCGCTATGGCGATTGGATCCCACCGCAGACACTGGCCACCTTCCCG
GGTAGCTGGTGGAACTGGAACGAATGGCCAGTGTCCGCCAGGCCGTGTGGCTCTTCAACATCAGTGTGACCCCT
TATGAACGGGAGGACCTGGCTGGCCAGCGGCTGATGTGGTCCGCACCCTGCTGGCTCGCCTGGCCGAATATAAC
CGCACAGCCATCCCGGTACGCTACCCAGCTGAGAACCCCGGGCTCATCCTGACTTTAATGGGGGTGCTTGGGGG
CCCTGGGCCAGTGATGAGGAAGAGGAGGAAGAGGAAGGGAGGGCTCGAAGCTTCTCCGGGGTGTGTCGAAGAAA
AAATGCAAGATTTGCAAGCTTCGATCCTTTTTCCGTAAACTCAACACCAGGCTAATGTCCCAACGGATCTGA

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FIGURE 1715

LDRLAAGVKLENYYIQICTPSRSQLLTGRYQIHTGLQHSIIRPQQPNCLPLDQVTLPOKLQEAGYSTHMGKW
HLGFYRKECLPTRRGFDFTLGSLTGNVDYYTYDNC DGPGVCGFDLHEGENVAWGLSGQYSTMLYAQRASHILASH
SPQRPLFLYVAFQAVHTPLQSPREYLY

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FIGURE 1716

ATGGGGATAATCAGGCACAGGTCTTTCCGCCAATGCGTTATGATGATTAAAGAAGTTGTCATATTTGTGAACTCG
CGGCAAATCTGGCCTCTCTGTGATTTCATCACTGTGCACACTCCTCTCCTGCCCTCCACGACAGGCTTGCTGAAT
GACAACACCTTTGCCAGTGCAAGAAGGGGGTGCCTGTGGTGAAGTGTGCCCGTGGAGGGATCGTGGACGAAGGC
GCCCTGCTCCGGGCCCTGCAGTCTGGCCAGTGTGCCGGGGCTGCACTGGACGTGTTTACGGAAGTAAGTGCCTGG
CAGCCTCAGCGTCAGGAGGACGGGAGAGATAGGGAGCAGAGAGGCCCATGGCAGGGAAAGCCTGGCGTTTTACAG
AAAGCCTATAGCTTATTGTCTCTTTCATCCATGGTAAAAGGAGAAAAGTGTGTTGCCAAAAACACACCTTTGTGG
TTTGAGGAGTCCTTGCGGAGCCTGTACCTGCTTCTTGCCCGAGGTGTGGCTGTGCAGAGGGGCTCCCTAACTGC
ATCCTGAGGGTGCTCCCACTATGCACCCTGTGCCAAGCCTGGACACCTGAGGGATCTGTGCCCAATGCTACTGGA
GCCAAGGCTGGGGCTACCTTTAGTGATAGTGTTATTATTGTAATTATTGTAACCATTGTACAGAATGTCCAGAC
TGGTATGCAGGTATAGCTCATTACCAGGAGGAAAACACAGAAGGTCTTTGTGCAGTTGCTGTGGTTTTGAGTTTC
TCTGGGATAGCTTGTATTTTGCCAGCAAATGAAAGCTTTGGACCTCTGCAGATGTCACTTGGAGGAGCAGTCAAA
GACATCTTCAGGTTTCATGGTCATATTCAATTATGGTGTGTTGTGGCCTTTATGATTGGAACGTACAACCTTCTACTCC
TACTACATTGGTGCAAAACAAAATGAAGCCTTCACAACAGTTGAAGAGAGTTTTAAGACACTGTTCTGGGCTATA
TTTGGACTTGCTGAAGTGAAATCAGTGGTCATCAACTATAACCACAAATTCATTGAAAATATTGGTTATGTTTCGT
TATGGAGTCTATAATGTTACAGTGGTCATTGTTTTGCTAAATGTGTTAATTGCCATGATCAACAATTCATTCCAG
GAAATTGAGGATGATGCTGATGTGGAGTAG

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FIGURE 1717

MGIIRHRSFRQCVMMIKEATFSDSVIIVIIVTIVTECPDWYAGIAHYQEENTEGLCAVAVVLSFSGIACILPANE
SFGPLQMSLGGAVKDI FRFMVIFIMVFVAFMIGTYNFYSYYIGAKQNEAFTTVEESFKTLFWAIFGLAEVKSIVI
NYNHKFIENIGYVRYGVYNVTVVIVLLNVLIAMINNSFQEIEDDADVE

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FIGURE 1718

ATGGCGACTGCGACCCCCGTGCCGCCGCGGATGGGCAGCCGCGCTGGCGGCCCCACCACGCCGCTGAGCCCCACG
CGCCTGTCGCGGCTCCAGGAGAAGGAGGAGCTGCGCGAGCTCAATGACCGGCTGGCGGTGTACATCGACAAGGTG
CGCAGCCTGGAGACGGAGAACAGCGCGCTGCAGCTGCAGGTGACGGAGCGCGAGGAGGTGCGCGGCCGTGAGCTC
ACCGGCCTCAAGGCGCTCTACGAGACCGAGCTGGCCGACGCGCGACGCGCGCTCGACGACACGGCCCCGCGAGCGC
GCCAAGCTGCAGATCGAGCTGGGCAAGTGCAAGGCGGAACACGACCAGCTGCTCCTCAACTATGCTAAGAAGGAA
TCTGATCTTAATGGCGCCCAGATCAAGCTTCGAGAATATGAAGCAGCACTGAATTCGAAAGATGCAGCTCTTGCT
ACTGCACTTGGTGACAAAAAAGTTTAGAGGGAGATTGGAGGATCTGAAGGATCAGATTGCCAGTTGGAAAGCC
TCCTTAGCTGCAGCCAAAAACAGTTAGCAGATGAACTTTACTTAAAGTAGATTTGGAGAATCGTTGTCAGAGC
CTTACTGAGGACTTGAGTTTCGCAAAAGCATGTATGAAGAGGAGATTAACGAGACCAGAAGGAAGCATGAAACG
CGCTTGGTAGAGGTGGATTCTGGGCGTCAAAATTGAGTATGAGTACAAGCTGGCGCAAGCCCTTCATGAGATGAGA
GAGCAACATGATGCCCAAGTGAGGCTGTATAAGGAGGAGCTGGAGCAGACTTACCATGCCAACTTGAGAATGCC
AGACTGTCATCAGAGATGAATACTTCTACTGTCAACAGTGCCAGGGAAGAACTGATGGAAAGCCGCATGAGAATT
GAGAGCCTTTCATCCAGCTTTCTAATCTACAGAAAGAGTCTAGAGCATGTTTGGAAGGATTCAAGAATTAGAG
GACTTGCTTGCTAAAGAAAAAGACAACTCTCGTCGCATGCTGACAGACAAAGAGAGAGAGATGGCGGAAATAAGG
GATCAATGCAGCAACAGCTGAATGACTATGAACAGCTTCTTGATGTAAAGTTAGCCCTGGACATGGAAATCAGT
GCTTACAGGAACTCTTAGAAGGCGAAGAAGAGAGGTTGAAGCTGTCTCCAAGCCCTTCTTCCCGTGTGACAGTA
TCCCGAGCATCCTCAAGTCGTAGTGACGTACAACAGAGGAAAGCGGAAGAGGGTTGATGTGGAAGAATCAGAG
GCGAGTAGTAGTGTTAGCATCTCTCATTCCGCTCAGCCACTGGAAATGTTTGCATCGAAGAAATTGATGTTGAT
GGGAAATTTATCCGCTTGAAGAACACTTCTGAACAGGATCAACCAATGGGAGGCTGGGAGATGATCAGAAAAATT
GGAGACACATCAGTCAGTTATAAATATACCTCAAGATATGTGCTGAAGGCAGGCCAGACTGTTACAATTTGGGCT
GCAAACGCTGGTGTACAGCCAGCCCCCACTGACCTCATCTGGAAGAACCAGAACTCGTGGGGCACTGGCGAA
GATGTGAAGGTTATATTGAAAAATTCTCAGGGAGAGGAGGTTGCTCAAAGAAGTACAGTCTTTAAAACAACCATA
CCTGAAGAAGAGGAGGAGGAGGAAGAAGCAGCTGGAGTGTTGTTGAGGAAGAAGCTTTCCACCAGCAGGGAACC
CCAAGAGCATCCAATAGAAGCTGTGCAATTATGTAAAATTTTCAACTGTCTTCCTCAAATAAAGAAGTATGGTA
ATCTTTACCTGTATACAGTGCAGAGCCTTCTCAGAAGCACAGAATATTTTTATATTTCTTTATGTGAATTTTGA
AGCTGCAAATCTGATGGCCTTAATTTCTTTTTTGACACTGAAAGTTTTGTAAAAGAAATCATGTCCATACACTTT
GTTGCAAGATGTGAATTATTGACACTGAACTTAATAACTGTGTACTGTTTCGGAAGGGGTTCTCAAATTTTTTGA
CTTTTTTTGTATGTGTGTTTTTTCTTTTTTTTAAAGTTCTTATGAGGAGGGGAGGGTAAATAAACCCTGTGCGT
CTTGGTGTAATTTGAAGATTGCCCCATCTAGACTAGCAATCTCTTCATTATTCTCTGCTATATATAAACGGTGC
TGTGAGGGAGGGGAAAAGCATTTTTCAATATATTGAACTTTTGTACTGAATTTTTTTGTAATAAGCAATCAAGGT
TATAATTTTTTTTTAAATAGAAATTTTGAAGAAGGCAATATTAACCTAATCACCATGTAAGCACTCTGGATGAT
GGATTCCACAAAACCTGGTTTTATGGTTACTTCTCTCTTAGATTCTTAATTCATGAGGAGGGTGGGGGAGGGAG
GTGGAGGGAGGGAAGGTTTTCTCTATTAATAATGCATTCGTTGTGTTTTTTAAGATAGTGTAACCTTGCTTAAATTT
CTTATGTGACATTAACAAATAAAAAAGCTCTTTT

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FIGURE 1719

MATATPVPPRMGSRAGGPTTPLSPTRL SRLQEKEELRELNDRLAVYIDKVR SLETENSALQLQVTEREEVVRGREL
TGLKALYETELADARRALDDTARERAKLQIELGKCKAEHDQLLLN YAKKESDLNGAQIKLREYEAALNSKDAALA
TALGDKKSLEGDLEDLKDQIAQLEASLAAAKQLADETLLKVDLENRCQSLTEDLEFRKSMYEEEINETRRKHET
RLVEVD SGRQIEY EYKLAQALHEMREQHDAQVRLYKEELEQTYHAKLENARLSSEMNTSTVNSAREELMESRMRI
ESLSSQLSNLQKESRACLERIQELEDLLAKEKDNSRRMLTDKEREMAEIRDQMQQQLNDYEQLLDVKLALDMEIS
AYRKLL EGEEERLKLSPSPSSRVTVSRASSSRSVRTTRGKRKRVDVEESEASSSVSISHSASATGNVCIEEIDVD
GKFIRLKNTSEQDQPMGGWEMIRKIGDTSVSYKYTSRYVLKAGQTVTIWAANAGVTASPTD LIWKNQNSWGTGE
DVKVILKNSQGEEVAQRSTVFKTTIPEEEEEEEEAAGVVVEEELFHQQGTPRASNRSCAIM

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FIGURE 1720

GGTCTCTGGTCTCCCCCTCTCTGAGCACTCTGAGGTCCTTATGTCGTCAGAAGATCGAGAAGCTCAGGAGGATGAA
TTGCTGGCCCTGGCAAGTATTTACGATGGAGATGAATTTAGAAAAGCAGAGTCTGTCCAAGGTGGAGAAACCAGG
ATCTATTTGGATTTGCCACAGAATTTCAAGATATTTGTGAGCGGCAATTCAAATGAGTGTCTCCAGAATAGTGGC
TTTGAATACACCATTTGCTTTCTGCCTCCACTTGTGCTGAACTTTGAACTGCCACCAGATTATCCATCCTCTTCC
CCACCTTCATTACACTTAGTGGCAAAATGGCTGTACCAACTCAGCTATCTGCTCTATGCAAGCACTTAGACAAC
CTATGGGAAGAACACCGTGGCAGCGTGGTCCTGTTTGCCTGGATGCAATTTCTTAAGGAAGAGACCCTAGCATAC
TTGAATATTGTCTCTCCTTTTGGAGCTCAAGATTGGTTCTCAGAAAAAGTGCAGAGAAGGACAGCTCAAGCTTCT
CCCAACACAGAGCTAGATTTTGGAGGAGCTGCTGGATCTGATGTAGACCAAGAGGAAATTGTGGATGAGAGAGCA
GTGCAGGATGTGGAATCACTGTCAAATCTGATCCAGGAAATCTTGGACTTTGATCAAGCTCAGCAGATAAAATGC
TTTAATAGTAAATTGTTCTGTGCAGTATCTGTTTCTGTGAGAAGCTGGGTAGTGAATGCATGTACTTCTTGGAG
TGCAGGCATGTGTACTGCAAAGCCTGTCTGAAGGACTACTTTGAAATCCAGATCAGAGATGGCCAGGTTCAATGC
CTCAACTGCCCAGAACCAAAGTGCCCTTCGGTGGCCACTCCTGGTCAGGTCAAAGAGTTAGTGAAGCAGAGTTA
TTTGCCCGTTATGACCGCCTTCTCCTCCAGTCCTCCTTGGACCTGATGGCAGATGTGGTGTACTGCCCCCGGCCG
TGCTGCCAGCTGCCTGTGATGCAGGAACCTGGCTGCACCATGGGTATCTGCTCCAGCTGCAATTTTGCCTTCTGT
ACTTTGTGCAGGTTGACCTACCATGGGGTCTCCCCATGTAAGGTGACTGCAGAGAAATTAATGGACTTACGAAAT
GAATACCTGCAAGCGGATGAGGCTAATAAAAGACTTTTGGATCAAAGGTATGGTAAGAGAGTGATTTCAGAAGGCA
CTGGAAGAGATGGAAGTAAGGAGTGGCTAGAGAAGAACTCAAAGAGCTGCCCATGTTGTGGAAGTCCCATAGAG
AAATTAGACGGATGTAACAAGATGACATGTACTGGCTGTATGCAATATTTCTGTTGGATTTGCATGGGTTCTCTC
TCTAGAGCAAACCTTTACAAACATTTCAATGACCCTGGTTCACCATGTTTTAACCGGCTGTTTTATGCTGTGGAT
GTTGACGACGATATTTGGGAAGATGAGGTAGAAGACTAGTTAACTACTGCTCAAGATATGGAAGTGGATTGTTTT
TCCCTAATCTTCCGTCAAGTACACAAAGTAACTTTGCGGGATATTTAGGGTACTATTCACTCTTCTCTGCGT
AGAAGATATGGAAGAACGAGGTTTATATTTTCATGTGGTACTACTGAAGAAGGTGCATTGATACATTTTAAATG
TAAGTTGAGAAAAATTTATAAGCCAAAGGTTTCAGAAAATTAACTACAGAA

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FIGURE 1721

CGCGGCGGCCTTTCTAGCCGCTGTCCCAAGGGTTGGTCTCGCGCTTTCGGCTGCGAGCTCTCTGTGGTGCTGGCA
GCGACATGTGGCGCCTCCCGGACTCCTGGGCGAGCTCTTCCCGTACACTGGGACCTAGCCTCTGGAGGGTGA
CTCCTAAGTCCACCAGCCAGATGGGCTCAGACTACCTCCTCCACTTTGCTGGTTCCCTGTGCCTAACCTCGACA
GGTCAGGTCCCATGGCCAGGCACGAGCGGGGTCCAAGGTCCCATGGATGGAAGGATGCCTTCCAATGGATGT
CTTCCCGTGTCTCCCGAACACCCCTATGGGATGCCATATCTTGGGGCACTCTGGCCGTGCTGGCCCTGCAGCTGG
CAAGGCAGATCCACTTCCAGGCATCCCTGCCAGCAGGACCTCAGCGGGTAGAACACTGCTCCTGGCACAGTCCCC
TGGACCGTTTCTTCTCATCTCCCTTGTGGCACCCATGCTCCTCACTGCGACAACACATCCTCCCCAGCCCCGATG
GCCCAGTCCCAGGCACACTGGCCTCAGGGAACCCAGGCTTGGCCAGGAAGAAGCCTCAGCTCAGCCCCGGAAGT
TCTCACACAACCTTTGAGAGGAGCTCGTCCTCAGGACCCCTCTGAGGAAGGTCCCGGTGATTTTGGCTTCCCTGC
ATGCCAGTAGTAGCATCGAGTCCGAGGCAAAACCAGCCAGCCTCAGCCCACTGGTGAAAAGGAACAAGATAAAT
CAAAAACCTTTCCCTTGAGGAGGCTGTGACTTCCATTTCAGCAGCTCTTCCAGCTCAGTGTTTCCATCGCTTTCA
ACTTCTTGGAACAGAGAACATGAAGAGTGGCGACCACACGGCAGCCTTTTCTTACTTCCAGAAAGCTGCAGCCC
GCGGCTACAGCAAAGCGCAGTACAATGCGGGCTTGTGTCTATGAGCATGGCAGAGGCACCCCCAGGGACATTAGCA
AGGCGGTCCCTTTATTATCAGTTGGCTGCCAGCCAGGGCCACAGCCTGGCTCAGTACCGCTATGCCAGGTGCCTAC
TACGAGACCCAGCCTCTTCGTGGAACCTGAGCGGCAGAGGGCAGTGCTCCTTGCTGAAGCAGGCTGCAGACTCAG
GCTTGAGAGAGGCCCAAGCTTTCTCGGGGTGCTTTTACCAAGGAGCCCTACCTGGATGAGCAGAGAGCTGTGA
AATATCTTTGGCTTGACGCCAACAAATGGGGACTCACAGAGCAGGTACCACCTTGAATTTGCTATGAGAAAGGCC
TTGGTGTGCAGAGGAATCTGGGAGAGGCCTTGAGATGTTACCAGCAGTCAGCCGCTCTGGGAAATGAGGCCGCC
AGGAGAGGCTGCGAGCCCTCTTTTCCATGGGGGTGCAGCCCCGGGGCCAGCGACCTGACAGTTACAGGACTGA
AGTCTTTTCTCCAGCCCTCCCTCTGCAGCTTGAACACCCTGTAGCAGGAACCTCACGCCTACCACATGCCTCGA
GCACAGGCAACCTTGGCCTCCTCTGCAGAAGTGGGCATCTCGGAGCCAGCCTGGAAGCCTCCAGCAGGGCTATTC
CCCCACACCCCTACCCACTGGAAAGGAGTGTTGTAAGACTAGGTTTTGGCTAAGGTGAGATAAAACATAGTCCCT
GGTGCTCTTAGGGGCCAGAGCGGGCAGGAGGTTGGATAACAAAAATAGAGCATCAGCAACCCCTTTCCAGGTAGA
AATTCCAGCGGGAGTTAGGTTCCCAAGCAATTTACGTACATGGCTGGTAAGTGACTGATCTTTCCCCCGCTT
GGTAGCCTCACAGATGAGTCTTGGATGCATTACAGTCATTTCTGGTCTGTGCACCAAGGATGCATTACGTGAC
CTATGAAAAACCCCTACTGAAGGGTCCAGAGACCCTGGTGCTACCTTAGCCTTTGTCTTTGAGCAAATAACTTAC
CTTCTTCCCTCTTATGCCTGGGTTTTCTCACACTTAAATCTGTACTACTGTTTGCCAATGTCTGATGTGTGTATC
CCTGGTTCACAAGAAGATTTTAGATGGTATTCAAATTAATATTTTCTATTTAGTTATATATTTAATGTATAATAT
AAAAATATGATTAGCATATTGACCTGTAGTTTGATAGATGTTCTGTCTAGGATAAAGCTAACTGTAAAAAAAAT
AGTGAATCAGTTTAAAGAAAAACATAACGTAAGAGTGGGCACAGATCCAGAGAGGTAGCAAAAATCACAGGGGTG
GTTCCATGAATGGCTGACACTTAGGAACTCTGAATTAGGCCATCCTCGAGACTAGCCACCATTACCTCTGTT
CATCCCCCGTGGGCTCATAATCGTTTTTCATTTACCTTTGATTTGGAAGGAAGAAGTTTCTTGCCCAAATGCCTG
GATGTGTCTGCTTGACTTTCAGAACTTCTCACCTCAGCCCTAAAGAGGGAGCCTGTGGGTCTCAGAGAGATATC
ACAATTTGAGTCCCAAAGAAGAGGCCAGATACCCACCCACCTTCCCCCAAATCTTAAGCACCTGCGCCAGTACAG
TCAAGAAGAGGAAAGTGTGTGAAGACCCAGGTCTGGCTCTGCCACTTGCTGGCCATGTACCTTGAAGCTGTGA
CCTGACTCCCTATATTGTTTCTCAGTTGTAGACCAAGGCAATGGTGTCTGCCCTCCTACCTTAGAAGACAAAT
GCAAGGGCATTTACACACAGAGAGGACCTTTGTGCTCACTTTGGCCAGGAGGCAGTGATGCTCATGGTTGCATG
ACTTTATGAGTCGCTGGGCCAGGGTGAGGACCTGGGCCTCCTGACTCCTGGCCAGAGTCTTGTCCATCAGTTC
ATACTGCAATTTTATGTGAAAGCATTATGACTGTCTACCCATGGGAGAGTAAATGTAGATTGAATGCTAGGAGT
CTTAAAGCTGGAGAGTATAGATTTTGGAGGTCCCCATTTGGGAAACATGTGCCAGAAATGTCTAGGTGTTTAAATA
AACAGATATTGGATTATCTC

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FIGURE 1722

MWRLPGLLGRALPRTLGPSTLWRVTPKSTSPDGPQTTSSTLLVPVNLDRSGPHGPGTSGGPRSHGWKDAFQWMSS
RVSPNTLWDAISWGTAVLALQLARQIHFAQSLPAGPQORVEHCSWHSPDRFFSSPLWHPCSSLRQHILPSPDGP
APRHTGLREPRLGQEEASAQPRNFSHNSLRGARPQDPSEEGPGDFGFLHASSSIESEAKPAQPQPTGEKEQDKSK
TSLSEEAVTISIQQLFQLSVSIAFNFLGTENMKSGDHTAAFSYFQKAAARGYSKAQYNAGLCHEHGRGTPRDISKA
VLYYQLAASQGHSLAQYRYARCLLRDPASSWNPERQRAVSLLKQAADSGLREAQAFGLGVLFKEPYLDEQRAVKY
LWLAANNNGDSQSRYHLGICYEKGLGVQRNLGEALRCYQQSAALGNEAAQERLRALFSMGAAAPGPSDLTVTGLKS
FSSPSLCSLNTLLAGTSRLPHASSTGNLGLLCRSGHLGASLEASSRAIPHPYPLERSVVRLGFG

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FIGURE 1723A

GCCCTCCTGATTCTGGGGCCTCCCAGGATGGAGCACCTGAGGCACAGCCCAGGCCCTGGGGGGCAACGGCTACTG
CTGCCCCTCCATGCTGCTAGCACTGCTGCTCCTGCTGGCTCCATCCCCAGGCCACGCCACTCGGGTAGTGTACAAG
GTGCCGGAGGAACAGCCACCCAACACCCTCATTGGGAGCCTCGCAGCCGACTATGGTTTTCCAGATGTGGGGCAC
CTGTACAAGCTAGAGGTGGGTGCCCCGTACCTTCGCGTGATGGCAAGACAGGTGACATTTTACCACCGAGACC
TCCATCGACCGTGAGGGGCTCCGTGAATGCCAGAACCAGCTCCCTGGTGATCCCTGCATCCTGGAGTTTGAGGTA
TCTATCACAGACCTCGTGCAGAATGGCAGCCCCCGGTGCTAGAGGGCCAGATAGAAGTACAAGACATCAATGAC
AACACACCCAACCTTCGCCTCACCAGTCATCACTCTGGCCATCCCTGAGAACACCAACATCGGCTCACTCTTCCCC
ATCCCCTGGCTTCAGACCGTGATGCTGGTCCCCAACGGTGTGGCATCCTATGAGCTGCAGGTGGCAGAGGACCAG
GAGGAGAAGCAACCACAGCTCATTGTGATGGGCAACCTGGACCGTGAGCGCTGGGACTCCTATGACCTCACCATC
AAGGTGCAGGATGGCGGCAGCCCCCACGCGCCAGCAGTGCCCTGCTGCGTGTACCGTGCTTGACACCAATGAC
AACGCCCCCAAGTTTGAGCGGCCCTCCTATGAGGCCGAACCTATCTGAGAATAGCCCCATAGGCCACTCGGTTCATC
CAGGTGAAGGCCAATGACTCAGACCAAGGTGCCAATGCAGAAATCGAATACACATTCCACCAGGCGCCCGAAGTT
GTGAGGCGTCTTCTTCGACTGGACAGGAACACTGGACTTATCACTGTTTCAAGGGCCCGGTGGACCGTGAGGACCTA
AGCACCTGCGCTTCTCAGTGCTTGCTAAGGACCGAGGCACCAACCCCAAGAGTGCCCGTGCCAGGTGGTTGTG
ACCGTGAAGGACATGAATGACAATGCCCCACCATTGAGATCCGGGGCATAGGGCTAGTGACTCATCAAGATGGG
ATGGCTAACATCTCAGAGGATGTGGCAGAGGAGACAGCTGTGGCCCTGGTGCAGGTGTCTGACCGAGATGAGGGA
GAGAATGCAGCTGTACCTGTGTGGTGGCAGGTGATGTGCCCTTCCAGCTGCGCCAGGCCAGTGAGACAGGCAGT
GACAGCAAGAAGAAGTATTTCTGCAGACTACCACCCCGCTAGACTACGAGAAGGTCAAAGACTACACCATTGAG
ATTGTGGCTGTGGACTCTGGCAACCCCCCACTCTCCAGCACTAACTCCCTCAAGGTGCAGGTGGTGGACGTCAAT
GACAACGCACCTGTCTTCACTCAGAGTGTCACTGAGGTGCGCTTCCCGGAAAACAACAAGCCTGGTGAAGTGATT
GCTGAGATCACTGCCAGTGATGCTGACTCTGGCTCTAATGCTGAGCTGGTTTACTCTCTGGAGCCTGAGCCGGCT
GCTAAGGGCCTCTTACCATCTCACCCGAGACTGGAGAGATCCAGGTGAAGACATCTCTGGATCGGGAACAGCGG
GAGAGCTATGAGTTGAAGGTGGTGGCAGCTGACCGGGGCGAGTCCTAGCCTCCAGGGCACAGCCACTGTCTTGTG
AATGTGCTGGACTGCAATGACAATGACCCCAAATTTATGCTGAGTGGCTACAACCTTCTCAGTGATGGAGAACATG
CCAGCACTGAGTCCAGTGGGCATGGTGAATGATGGAGACAAGGGGGAGAATGCCAGGTGCAGCTCTCA
GTGGAGCAGGACAACGGTGACTTTGTTATCCAGAATGGCACAGGCACCATCCTATCCAGCCTGAGCTTTGATCGA
GAGCAACAAAGCACCTACACCTTCCAGCTGAAGGCAGTGGATGGTGGCGTCCACCTCGCTCAGCTTACGTTGGT
GTCACCATCAATGTGCTGGACGAGAATGACAACGCACCCCTATATCACTGCCCTTCTAACACCTCTCACAAAGCTG
CTGACCCCCCAGACACGTCTTGGTGAGACGGTCAGCCAGGTGGCAGCCGAGGACTTTGACTCTGGTGTCAATGCT
GAGCTGATCTACAGCATTGCAGGTGGCAACCCCTTATGGACTCTTCCAGATTGGGTACATTGAGGTGCCATCACC
CTGGAGAAGGAGATTGAGCGGCGCCACCATGGGCTACACCGCCTGGTGGTGAAGGTGAGTACCGCGGCAAGCCC
CCACGCTATGGCACAGCCTTGGTCCATCTTTATGTCAATGAGACTCTGGCCAACCGCACGCTGCTGGAGACCCTC
CTGGGGCCACAGCCTGGACACGCGCTGGATATTGACATTGCTGGGGATCCAGAATATGAGCGCTCCAAGCAGCGT
GGCAACATTCTCTTTGGTGTGGTGGCTGGTGTGGTGGCGTGGCCTTGCTCATCGCCCTGGCGGTTCTTGTGCGC
TACTGCAGACAGCGGGAGGCCAAAAGTGGTTACCAGGCTGGTAAGAAGGAGACCAAGGACCTGTATGCCCCAAG
CCCAGTGGCAAGGCCTCCAAGGGAAACAAAAGCAAGGCAAGAAGAGCAAGTCCCCAAAGCCCGTGAAGCCAGTG
GAGGACGAGGATGAGGCCGGGCTGCAGAAGTCCCTCAAGTTCAACCTGATGAGCGATGCCCCTGGGGACAGTCCC
CGCATCCACCTGCCCCTCAACTACCCACCAGGCAGCCCTGACCTGGGCGGCCACTATCGCTCTAACTCCCCACTG
CCTTCCATCCAGCTGCAGCCCCAGTCACCCCTCAGCCTCCAAGAAGCACCAGGTGGTACAGGACCTGCCACCTGCA
AACACATTCTGTGGGCACCGGGGACACCAGTCCACGGGCTCTGAGCAGTACTCCGACTACAGCTACCGCACCAAC
CCCCCAAATACCCAGCAAGCAGTTACCTCACCAGCGCGTACCTTCTCGGCCACCAGCCAGGCCCAGGAGCTG
CAGGACCCATCCCAGCACAGTTACTATGACAGTGGCCTGGAGGAGTCTGAGACGCCGTCCAGCAAGTCATCCTCA
GGCCTCGACTCGGTCCCCTGGCCCTGCCTGAGGATCACTATGAGCGCACCAACCCCTGATGGCAGCATAGGAGAG
ATGGAGCACCCCGAGAATGACCTTCGCCCTTTGCTGATGTGCGCATGACAGGCACATGTACCCGGGAGTGCAGT
GAGTTTGGCCACTCTGACACATGCTGGATGCCTGGCCAGTCATCTCCAGCCGCGGACCAAGAGCAGCGCCCTC
AACTCTCCACCTTCGTGCCTTACCAGGACCGAGGAGGGCAGGAGCCTGCGGGCGCCGGCAGCCCCAGCCCCCG
GAAGACCGGAACACCAAAACGGCCCCCGTGCGCCTCCTGCCCTCCTACAGTGCCCTTCTCCACAGTAGCCATGAT
TCCTGCAAGGACTCGGCCACCTTGGAGGAAATCCCCCTGACCCAGACCTCGGACTTCCACCCGAGCCACACCG

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FIGURE 1723B

GCATCTGCCCAGACGGCCAAGCGCGAGATCTACCTGTGAGCCCCCTACTGGCCGGCCGGCCCCCTCCCCAGCC
GCCGGCCAGCTCCCAAATGGCCCATTCAGGGCCTCACTCTCCACCCCTTCAGCGTGGACTTCCTGGCCAGGGCC
CCAAGTGGGGGTATCACTGACCTCATGACCACGCTGGCCCTTCTCCCATGCAGGGTCCAGGTCCTCTCCCTCAT
TTCCATCTCCCAGCCCCCAGGGGCCCTTCCCCTTTATGGGGCTTCCCCATCTGATGCCCAAGAGGGCTCCTCT
GCAATGACTGGGCTCCTTCCCTTGACTTCCAGGGAGCACCCCTCGATTTGGGCAGATGGTGGAGTCAAGGGTGG
GCAGCGTACTTCTAACTCATTGTTTCCCTCATGGCCGACCAGGGCGGGGATAGCATGCCCAATTTTAGCCCTGAA
GCAGGGCTGAACTGGGGAGCCCCCTTCCCTGGGAGCTCCCAGAGGAACTCTTGACCACCAGTGGCTCCCTGAAG
GGCTTTTGTTACCAAAGGTGGGGTAGGGACGGGGGTGGGAGTGGAGCGGAGGCCTTGTTTTCCCGTG

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FIGURE 1724

GGAGACGCTTCTTCTCTTGCTGCTCTTCTCGTTCCCGAGATCAGCGGCGGCGGTGACCGCGAGTGGGTTCGGCAC
CGTCTCCGGCTCCGGGTGCGAACAATGCTGACTGATAGCGGAGGCGGCGGCACCTCCTTTGAGGAGGACCTGGAC
TCTGTGGCTCCGCGATCCGCCCCAGCTGGGGCCTCGGAGCCGCTCCGCCGGGAGGGGTCTGGGGATCCGC
ACCGTGAGGCTCTTTGGGGAGGCCGGGCCAGCGTCCGGAGTCCGGCAGCAGCGGCGGCGGCGGCAGCGGCAGCGGT
ACGGGCGGAGGGGACGCGGCGCTGGATTTCAAGTTGGCGGCTGCCGTGCTGAGGACCGGGGGTGGAGGTGGTGCC
TCTGGCAGTGACGAGGACGAAGTGTCCGAGGTTGAATCATTTATTTGGACCAAGAAGATCTGGATAACCCAGTG
CTTAAAACAACATCAGAGATAATTCTTATCAAGTACTGCAGAAGGAGCAGACTTACGCACTGTGGATCCAGAGACA
CAGGCACGACTAGAAGCATTGCTAGAAGCAGCAGGAATTGGCAAATTGTCAACTGCTGATGGTAAAGCTTTTGCA
GATCCTGAGGTACTCCGGAGACTGACATCCTCAGTTAGTTGTGCACTGGATGAAGCTGCTGCTGCACTGACACGG
ATGAAGCAGAAAACAGCCACAATGCAGGACAAGTGGACACTCGCAGTCTAGCAGAAGCTTGTTTCAGATGGGGAT
GTTAATGCTGTTTCGTAAATTGCTAGATGAAGGCAGAAGTGTAATGAACATACAGAAGAAGGAGAAAGCCTGCTG
TGTTTGGCTTGTTTCAGCAGGGTATTATGAATTAGCACAAAGTATTGCTTGCTATGCATGCTAATGTTGAAGATCGA
GGGAATAAAGGAGACATAACTCCCCTGATGGCAGCTTCCAGTGGAGGTTACTTAGATATTGTGAAATTATTACTT
CTTCATGATGCTGATGTCAACTCCCAGTCTGCAACAGGAAACACTGCGCTAACTTATGCATGTGCTGGAGGATTT
GTTGACATTGTTAAAGTGCTCCTTAATGAAGGTGCAAAATATAGAAGATCATAATGAAAATGGACATACTCCCTTA
ATGGAAGCAGCCAGTGCAGGTCAATGTGGAAGTTGCAAGAGTTCTTTTAGATCATGGTGCAGGCATCAACACTCAT
TCTAATGAATTCAAAGAAAGTGCTCTAACACTTGCTTGCTACAAAGGCCATTGGATATGGTTCGCTTTCTACTT
GAAGCTGGTGCAGATCAAGAGCACAAAACAGATGAGATGCACACTGCCTTAATGGAGGCCTGCATGGATGGACAT
GTAGAGGTGGCACGTTTGCTTTTGATAGTGGTGCTCAAGTGAACATGCCTGCAGATTCAATTTGAATCTCCATTG
ACGCTAGCTGCCTGTGGAGGACATGTTGAATTGGCAGCTCTACTTATTGAAAAGGGGAGCAAATCTTGAAGAAGTT
AATGATGAAGGATACACTCCCTTGATGGAAGCTGCCCCGGAAGGACATGAAGAAATGGTGGCACTACTCTTAGCA
CAAGGAGCAAATATAAATGCCCAGACAGAAGAACTCAAGAACTGCTCTTACTTTGGCTTGCTGTGGAGGATTT
TCTGAAGTTGCAGACTTTCTTATTAAGGCAGGGGCTGATATAGAACTTGGCTGCTCCACACCTCTGATGGAGGCA
TCTCAGGAGGGACACCTGGAATTGGTTAAATATTTGCTGGCTTCTGGCGCTAATGTGCATGCTACAACAGCAACA
GGAGACACAGCCTTAACCTATGCTTGTGAAAATGGACATACGGATGTTGCAGATGTTTTACTTCAAGCAGGGGCT
GATTTAGACAAGCAGGAGGACATGAAGACTATTTTGGAGGGCATAGATCCGCCAAGCATCAGGTGAGGGTGGCC
TTTGATGCTTGTAAGCTACTACGTAAAGAATAGATGTTGTAGGTAACCAGAACTCTGGATATCTGAATTCAGCC
AAGAAGTTCCAGGACCCTGCTGGGTGACAAAGGAAATCCTCTTCAATTGAAAAAGATTATGAAGTCCCAATAAAA
AGAGATTTGTATTGCTGGTAAAAA

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FIGURE 1725

MKAENSHNAGQVDTRSLAEACSDGDVNAVVRKLLDEGRSVNEHTEEGESLLCLACSAGYYELAQVLLAMHANVEDR
GNKGDITPLMAASSGGYLDIVKLLLLHDADVNSQSATGNTALTYACAGGFVDIVKVLLNEGANIEDHNENGHTPL
MEAASAGHVEVARVLLDHGAGINTHSNEFKESALTACYKGHLDMVRFLEAGADQEHKTDEMHTALMEACMDGH
VEVARLLLDSGAQVNMPADSFESPLTLAACGGHVELAALLIERGANLEEVNDEGYTPLMEAAREGHEEMVALLLA
QGANINAQTEETQETALTACC GGFSEVADFLIKAGADIELGCSTPLMEASQEGHLELVKYL LASGANVHATTAT
GDTALTYACENGHTDVADVLLQAGADLDKQEDMKTILEGIDPAKHQVRVAFDACKLLRKE

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FIGURE 1726

GGCACGAGGGCGGGGAAGATGGCGGATGACAAGGATTCTCTGCCTAAGCTTAAGGACCTGGCATTCTCAAGAAC
CAGCTGGAAAAGCCTGCAGCGGCGTGTAGAAGACGAAGTCAACAGTGGAGTGGGCCAGGATGGCTCGCTGTTGTCC
TCCCCGTTCCCTCAAGGGATTCCCTGGCTGGCTATGTGGTGGCCAAACTGAGGGCATCAGCAGTATTGGGCTTTGCT
GTGGGCACCTGCACTGGCATCTATGCGGCTCAGGCATATGCTGTGCCAACGTGGAGAAGACATTAAGGGACTAT
TTGCAGTTGCTACGCAAGGGGCCCCGACTAGCTCTAGGTGCCATGGAAGAGGCAGGATGAGCAGCTCAGCCTTCAG
GTGGAGACACTTTATCTGGATTCCCCAGCTGTCATCCATTGTCTATCTCCAACCTTCTGCCCACCTTCATCCTTG
CCTCCCTTCCCTGCAGATTGTGGACAGTAGTTCCCTCAGCCTGCACCCTGGATTCTTCTTCCCCTTCCCTAGCTCCA
TGGGACTCGCCCCAAGACTGTGGCTTCAAGGACCACCAGCCCCCTTACTCTTCAAGCCCTGACTGTGGAGTTGGTA
GATGCCTCTGATCCTCAGTATTCTCTCTGGCAATGTTCCACGGCTTCTCCTTCTGGGAGCTGGCTCCATAACTT
GATTTTCCCCAAACGTGTTGCAATCCCTGCTGCCCCCTTAGCCACCCAGGGTCTTGTGTGGGTATGAGTGTAGAGG
ATGGGGGTATGCCAGGCCTGGGCGCTCCAGGCAGGCCCGCTGGACCCTGATGCTACTCCTATCCACTGCCATGT
ACGGTGCCCATGCCCATTTGCTGGCACTGTGCCATGTGGACGGCCGAGTGCCCTTCCGGCCCTCCTCAGCCGTGC
TGCTGACTGAGCTGACCAAGCTACTGTTATGCGCCTTCTCCCTTCTGGTAGGCTGGCAAGCATGGCCCCAGGGGC
CCCCACCCTGGCGCCAGGCTGCTCCCTTCGCACTATCAGCCCTGCTCTATGGCGCTAACAACAACCTGGTGATCT
ATCTTCAGCGTTACATGGACCCAGCACCTACCAGGTGCTGAGTAATCTCAAGATTGGAAGCACAGCTGTGCTCT
ACTGCCTCTGCCTCCGGCACCGCCTCTCTGTGCGTCAGGGGTTAGCGCTGCTGCTGCTGCTGATGGCTGCGGGAGCCT
GCTATGCAGCAGGGGGCCTTCAAGTTCCCGGGAACACCCTTCCCAGTCCCCCTCCAGCAGCTGCTGCCAGCCCCA
TGCCCCTGCATATCACTCCGCTAGGCCTGCTGCTCCTCATTCTGTACTGCCTCATCTCAGGCTTGTGCTCAGTGT
ACACAGAGCTGCTCATGAAGCGACAGCGGCTGCCCTGGCACTTCAAGACCTCTTCCCTCTACACTTTTGGTGTGC
TTCTGAATCTAGGTCTGCATGCTGGCGGCGGCTCTGGCCCAGGCCTCCTGGAAGGTTTCTCAGGATGGGCAGCAC
TCGTGGTGTGCTGAGCCAGGCACATAATGGACTGCTCATGTCTGCTGTCTATGAAGCATGGCAGCAGCATCACAGCC
TCTTTGTGGTGTCTGCTCGCTGGTGGTCAACGCCGTGCTCTCAGCAGTCTGCTACGGCTGCAGCTCACAGCCG
CCTTCTTCCCTGGCCACATTGCTCATTGGCCTGGCCATGCGCCTGTACTATGGCAGCCGCTAGTCCCTGACAACTT
CCACCCTGATTCTGGACCTGTAGATTGGGCGCCACCACCAGATCCCCCTCCAGGCCTTCTCCTCTCCCATC
AGCAGCCCTGTAACAAGTGCTTGTGAGAAAAGCTGGAGAAGTGAGGGCAGCCAGGTTATTCTCTGGAGGTTGGT
GGATGAAGGGGTACCCCTAGGAGATGTGAAGTGTGGGTTTGGTTAAGGAAATGCTTACCATCCCCCACCCTAAC
CAAGTTCTTCCAGACTAAAGAATTAAGGTAACATCAATACCTAGGCCTGAGAAATAACCCCATCCTTGTGGGCA
GCTCCCTGCTTTGTCTGCTGATGAACAGAGTTGATGAAAGTGGGGTGTGGGCAACAAGTGGCTTTCTTGCCTACT
TTAGTCAACCAGCAGAGCCACTGGAGCTGGCTAGTCCAGCCAGCCATGGTGCATGACTCTTCCATAAGGGATCC
TCACCCTTCCACTTTTCATGCAAGAAGGCCAGTTGCCACAGATTATACAACCATTACCCAAACCACTCTGACAGT
CTCCTCCAGTTCCAGCAATGCCTAGAGACATGCTCCCTGCCCTCTCCACAGTGTGCTCCCCACACCTAGCCTTT
GTTCTGGAAACCCAGAGAGGGCTGGGCTTACTCATCTCAGGGAATGTAGCCCCTGGGCCCTGGCTTAAGCCGA
CACTCCTGACCTCTCTGTTACCCCTGAGGGCTGTCTTGAAGCCCGCTACCCACTCTGAGGCTCCTAGGAGGTACC
ATGCTTCCCACTCTGGGGCCTGCCCTGCCTAGCAGTCTCCAGCTCCCAACAGCCTGGGGAAGCTCTGCACAGA
GTGACCTGAGACCAGGTACAGGAAACCTGTAGCTCAATCAGTGTCTCTTTAACTGCATAAGCAATAAGATCTTAA
TAAAGTCTTCTAGGCTGTAGGGTGGTTCCTACAACCACAGCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1727

MSVEDGGMPGLGRPRQARWTLMLLLSTAMYGAHAPLLALCHVDGRVPFRPSSAVLLTELTKLLLCAFSLIVGWQA
WPQGPPPPWRQAAPFALSALLYGANNNLVIYLRQYMDPSTYQVLSNLKIGSTAVLYCLCLRHRLSVRQGLALLLLM
AAGACYAAGGLQVPGNTLPSPPPAAAASPMPLHITPLGLLLLLILYCLISGLSSVYTELLMKRQRLPLALQNLFLY
TFGVLLNLGLHAGGGSGPGLLEGFSGWAALVVLSQALNGLLMSAVMKHGSSITRLFVVSCSLVVNAVLSAVLLRL
QLTAAFFLATLLIGLAMRLYYGSR

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FIGURE 1728A

CAGAAAGCCATGTCGGACTCGGCGCCAGCGCCCAAGCGCTAACCCGCTGAAAGTTTCTCAGCGAAATCTCAGGG
ACGATCTGGACCCCGCTGAGAGGAACTGCTTTTGTAGTGAGATGCTCCAGAGGCCTGGAGGAGCGGACTGGTAAG
CACCGGGAGGGTAGTGGGAGTTTTGCTTCTGCTTGGTGCCTTGAACAAGGCTTCCACGGTCATTCACTATGAGAT
CCCGGAGGAAAGAGAGAAGGGTTTTGCTGTGGGCAACGTGGTCCGGAACCTTGGTTTGGATCTCGGTAGCCTCTC
AGCCCGCAGGTTCCGGGTGGTGTCTGGAGCTAGCCGAAGATTCTTTGAGGTGAACCGGGAGACCGGAGAGATGTT
TGTGAACGACCGTCTGGATCGAGAGGAGCTGTGTGGGACACTGCCCTCTTGCACTGTAACCTCTGGAGTTGGTAGT
GGAGAACCCGCTGGAGCTGTTTACGCTGGAAGTGGTGTATCCAGGACATCAACGACAACAATCCTGCTTTCCCTAC
CCAGGAAATGAAATTGGAGATTAGCGAGGCCGTGGCTCCGGGGACGCGCTTTCCGCTCGAGAGCGCGCACGATCC
CGATGTGGGAAGCAACTCTTTACAAACCTATGAGCTGAGCCGAAATGAATACTTTGCGCTTCGCGTGCAGACGCG
GGAGGACAGCACCAAGTACGCGGAGCTGGTGTGGAGCGCGCCCTGGACCGAGAACGGGAGCCTAGTCTCCAGTT
AGTGCTGACGGCGTTGGACGGAGGGACCCAGCTCTCTCCGCCAGCCTGCCTATTACATCAAGGTGCTGGACGC
GAATGACAATGCGCCTGTCTTCAACCAGTCTTGTACCGGGCGCGCGTCTTGAGGATGCACCCTCCGGCACGCG
CGTGGTACAAGTCTTGAACGGATCTGGATGAAGGCCCAACGGTGAATTATTTACTCCTTCGGCAGCCACAA
CCGCGCCGGCGTGCGGCAACTATTGCGCTTAGACCTTGTAAACGGGATGCTGACAATCAAGGTTCGGCTGGACTT
CGAGGACACCAAACTCCATGAGATTTACATCCAGGCCAAAGACAAGGGCGCCAATCCCGAAGGAGCACATTGCAA
AGTGTGGTGGAGGTTGTGGATGTGAATGACAACGCCCCGAGATCACAGTCACCTCCGTGTACAGCCCAGTACC
CGAGGATGCCCCCTCTGGGGACTGTCATCGCTTTGCTCAGTGTGACTGACCTGGATGCTGGCGAGAACGGGCTGGT
GACCTGCGAAGTTCACCGGGTCTCCCTTTTCAAGCTTACTTCTTCCCTCAAGAATTACTTCACTTTGAAAACAG
TGCAGACCTGGATCGGGAGACTGTGCCAGAATACAACCTCAGCATCACCGCCGAGACGCCGGAACCCCTTCCCT
CTCAGCCCTTACAATAGTGCGTGTTCAGTGTCCGACATCAATGACAACCCCTCCACAATCTTCTCAATCTTCTTA
CGACGTTTACATTGAAGAAAACAACCTCCCCGGGGCTCCAATACTAAACCTAAGTGTCTGGGACCCCGACGCCCC
GCAGAATGCTCGGCTTTCTTTCTTTCTTCTTGGAGCAAGGAGCTGAAACCGGGCTAGTGGGTGCTATTTCACAAT
AAATCGTGACAATGGCATAAGTGTATCCTTAGTGCCCTAGACTATGAGGATCGGCGGGAATTTGAATTAACAGC
TCATATCAGCGATGGGGGCACCCCGGTCTAGCCACCAACATCAGCGTGAACATATTTGTCACTGATCGCAATGA
CAATGCCCCCAGGTCTATATCTCGGCCAGGTGGGAGCTCGGTGGAGATGCTGCCTCGAGGTACCTCAGCTGG
CCACCTAGTGTACGGGTGGTAGGCTGGGACGCGGATGCAGGGCACAATGCCTGGCTCTCCTACAGTCTCTTGGG
ATCCCCTAACAGAGCCTTTTGGCATAGGGCTGCACACTGGTCAAATCAGTACTGCCGTCCAGTCCAAGACAC
AGATTCACCCAGGCAGACTCTCACGGTCTTGATCAAAGACAATGGGGAGCCTTCGCTCTCCACCACTGCTACCCT
CACTGTGTACAGTAACCGAGGACTCTCCTGAAGCCCGAGCCGAGTTCCCCTCTGGCTCTGCCCCCGGGAGCAGAA
AAAAAATCTCACCTTTTATCTACTTCTTTCTCTAATCTGGTTTCTGTGGGGTTTGTGGTTCACAGTGTTCGGAGT
AATCATATTCAAAGTTTACAAGTGAAGCAGTCTAGAGACCTATACCGAGCCCCGGTGAGCTCACTGTACCGAAC
ACCAGGGCCCTCCTTGCACGCGGACGCCGTGCGGGGAGGCCTGATGTGCGCGCACCTTTACCATCAGGTGTATCT
CACCACGGAATCCCGCCGACGACCCGCTGCTGAAGAAACCTGGTGCAGCCAGTCCACTGGCCAGCCGCCAGAA
CACGCTGCGGAGCTGTGATCCGGTGTCTATAGGCAGGTGTTGGGTGCAGAGAGCGCCCCCTCCCGGACAGCAAGC
CCGCCCCAACACGGAATGGCGTTTCTCTCAGGCCAGAGACCCGGCACCAGCGGCTCCCAAAATGGCGATGACAC
CGGCACCTGGCCCCAACACAGTTTGTACACAGAGATGCTGCAAGCCATGATCTTGGCGTCCGCCAGTGAAGCTGC
TGATGGGAGCTCCACCCTGGGAGGGGGTGCCGGCACCATGGGATTGAGCGCCGCTACGGACCCAGTTACCCCT
GCAGCACGTGCCGACTACCGCCAGAATGTCTACATCCAGGCAGCAATGCCACACTGACCAACGCAGCTGGCAA
GCGGGATGGCAAGGCCCCAGCAGGTGGCAATGGCAACAAGAAGAAGTCGGGCAAGAAGGAGAAGAAGTAACATGG
AGGCCAGGCCAAGAGCCACAGGGCGGCCTCTCCCCAACAGCCAGCTTCTCCTTACCTGCACCCAGGCCTCAGA
GTTTCAGGGCTAACCCCCAGAATACTGGTAGGGGCCAAGGCCATGCTCCCCTTGGGAAACAGAAACAAGTGCCCCA
GTCAGCACCTACCCCTTCCCCCCCCAGGGGGTTGAATATGCAAAGCAGTTCCGCTGGGAACCCCCATCCAATCAA
CTGCTGTACCCATGGGGGTAGTGGGGTTACTGTAGACACCAAGAACCATTGTCACACCCCGTTTAGTTACAGCT
GAACTCCTCCATCTTCCAAATCAATCAGGCCCATCCATCCATGCCCTCCCTCCTCCCCACCCCACTCCAACAGTT
CCTCTTTCCCGAGTAAGGTGGTTGGGGTGTGAAGTACCAAGTAACCTACAAGCCTCCTAGTTCTGAAAAGTTGG
AAGGGCATCATGACCTCTTGGCCTCTCCTTGTATTCTCAATCTTCCCCCAAAGCATGGTTTGGTGCCAGCCCCCTT
CACCTCCTTCCAGAGCCCAAGATCAATGCTCAAGTTTTGGAGGACATGATCACCATCCCCATGGTACTGATGCTT
GCTGGATTTAGGGAGGGCATTCTTGTACCAAGCCTCTTCCCAACGCCCTGGGGACCAGTCTTCTGTTTTGTTTTT

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FIGURE 1728B

CATTGTTTGACGTTTCCACTGCATGCCTTGACTTCCCCCACCTCCTCCTCAAACAAGAGACTCCACTGCATGTTTC
CAAGACAGTATGGGGTGGTAAGATAAGGAAGGGAAGTGTGTGGATGTGGATGGTGGGGGCATGGACAAAGCTTGA
CACATCAAGTTATCAAGGCCTTGGAGGAGGCTCTGTATGTCCTCAGGGGACTGACAACATCCTCCAGATTCCAGC
CATAAACCAATAACTAGGCTGGACCCTTCCCACTACATAATAGGGCTCAGCCCAGGCAGCCAGCTTTGGGCTGAG
CTAACAGGACCAATGGATTAAACTGGCATTTCAGTCCAAGGAAGCTCGAAGCAGGTTTAGGACCAGGTCCCCCTTG
AGAGGTCAGAGGGGCTCTGTGGGTGCTGGGTACTCCAGAGGTGCCACTGGTGGGAAGGTCAGCGGAGCCCCAGC
AGGAAGGGTGGGCCAGCCAGGCCATTCTTAGTCCCTGGGTGGGGAGGCAGGGAGCTAGGGCAGGGACCAAATGA
ACAGAAAGTCTCAGCCCAGGATGGGGCTTCTTCAACAGGGCCCCCTGCCCTCCTGAAGCCTCAGTCCTTACCTTG
CCAGGTGCCGTTTCTCTTCCGTGAAGGCCACTGCCCAGGTCCCCAGTGCGCCCCCTAGTGGCCATAGCCTGGTTA
AAGTTCCCCAGTGCCCTCCTTGTGCATAGACCTTCTTCTCCACCCCCCTTCTGCCCCCTGGGTCCCCGGGCCATCCAG
CGGGGCTGCCAGAGAACCCAGACCTGCCCTTACAGTAGTGTAGCGCCCCCTCCCTCTTTCGGCTGGTGTAGAAT
AGCCAGTAGTGTAGTGC GG GTGTGCTTTTACGTGATGGCGGGTGGGCAGCGGGCGGGCGGGCTCCGCGCAGCCGTCT
GTCCTTGATCTGCCCCGCGGGCGGCCGTGTTGTGTTTTGTGCTGTGTCCACGCGCTAAGGCGACCCCTCCCCCGT
ACTGACTTCTCCTATAAGCGTTCTCTTCGCATAGTCACGTAGCTCCCACCCACCCCTCTTCTGTGTCTCACGC
AAGTTTATACTCTAATATTTATATGGCTTTTTTTCTTCGACAAAAAAATAATAAACGTTTCTTCTGAAAAGCT
G

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FIGURE 1729

MVPEAWRSGLVSTGRVVGVLALLLGA LNKASTVIHYEIP EEREKGF AVGNV VANLGLDLGSL SARRFRV VSGASRR
FFE VNRETGEMFVNDRLDREELCGTLP SCTVTLELVVENPLELFSVEVVIQDINDNNPAFPTQEMKLEISEAVAP
GTRFPLESAHDPDVGSNLQTYELSRNEYFALRVQTREDSTKYAELVLERALDREREPSLQLVLTALDGGTPALS
ASLP IHIKVLDANDNAPVFVNQSLYRARVLEDAPSGTRVVQVLATDLDEGPNGEIIYSFGSHNRAGVRQLFALDLV
TGMLTIKGRLDFEDTKLHEIYIQAKDKGANPEGACHCKVLVEVVDVNDNAPEITVTSVYSPVPEDAPLGTVIALLS
VTDLDAGENGLVTCEVPPGLPFSLTSSLKNYFTLKTSADLDRET VPEYNLSITARDAGTPSL SALTIVRVQVSDI
NDNPPQSSQSSYDVYIEENNLPGAPILNLSVWDPDAPQ NARLSFFLLEQGAETGLVGRYFTINRDNGIVSSLVPL
DYEDRREFELTAHISDGGTPVLATNISVNIFVTD RNDNAPQVLYPRPGSSVEMLPRGTSAGHLVSRVVGWDADA
GHNAWLSYSLLGSPNQSLFAIGLHTGQISTARPVQD TDSPRQTLTVLIKDNGEPSLSTTATLT VSVTEDSPEARA
EFPSGSAPREQKNLTFYLLLSLILVSVGFVVTVFGV IIFKVYKWKQSRDLYRAPVSSLYRTPGPSLHADAVRGG
LMSPHLYHQVYLTTDSRRSDPLLKKPGAASPLASRQNTLRSCDPVFYRQVLGAESAPPGQQAPPNTDWRFSQAQR
PGTSGSQNGDDTGTWPNNQFDTEMLQAMILASASEAADGSSTLGGGAGTMGLSARYGPQFTLQHVPDYRQNVYIP
GSNATLTNAAGKRDKAPAGGNGNKKKSGKKEKK

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FIGURE 1730A

ACGCGCCTGAAGCACAAAGCAGATAGCTAGGAATGAACCATCCCTGGGAGTATGTGGAAACAACGGAGGAGCTCT
GACTTCCCAACTGTCCCATTTCTATGGGCGAAGGAAGTCTCTGACTTCAGTGGTTAAGGGCAGAATTGAAAATA
ATTCTGGAGGAAGATAAGAATGATTTCCTGCGCGACTGCACCGGGACTACAAAGGGCTTGTCCTGCTGGGAATCCT
CCTGGGGACTCTGTGGGAGACCGGATGCACCCAGATACGCTATTTCAGTTCCGGAAGAGCTGGAGAAAGGCTCTAG
GGTGGGCGACATCTCCAGGGACCTGGGGCTGGAGCCCCGGGAGCTCGCGGAGCGCGGAGTCCGCATCATCCCCAG
AGGTAGGACGCAGCTTTTCGCCCTGAATCCGCGCAGCGGCAGCTTGGTCACGGCGGGCAGGATAGACCGGGAGGA
GCTCTGTATGGGGGCCATCAAGTGTCAATTAATCTAGACATTCTGATGGAGGATAAAGTGAATAATATATGGAGT
AGAAGTAGAAGTAAGGGACATTAACGACAATGCGCCTTACTTTTCGTGAAAGTGAATTAGAAATAAAAATTAGTGA
AAATGCAGCCACTGAGATGCGGTTCCCTCTACCCACGCTGGGATCCGGATATCGGGAAGAAGTCTCTGCAGAG
CTACGAGCTCAGCCCGAACACTCACTTCTCCCTCATCGTGAAAATGGAGCCGACGGTAGTAAGTACCCCGAATT
GGTGTCTGAAACGCGCCCTGGACCGCGAAGAAAAGGCTGCTCACCACCTGGTCCCTTACGGCCTCCGACGGGGCGA
CCCCGTGCGCACAGGCACCGCGCGCATCCGCGTGATGGTTCTGGATGCGAACGACAACGCACCAGCGTTTGCTCA
GCCCCAGTACCGCGCGAGCGTTCCGGAGAATCTGGCCTTGGGCACGCAGCTGCTTGTAGTCAACGCTACCGACCC
TGACGAAGGAGTCAATGCGGAAGTGAGGTATTCCCTCCGGTATGTGGACGACAAGGCGGCCAAGTTTTCAAAGT
AGATTGTAATTCAGGGACAATATCAACAATAGGGGAGTTGGACCACGAGGAGTCAGGATTCTACCAGATGGAAGT
GCAAGCAATGGATAATGCAGGATATTCTGCGCGAGCCAAAGTCTGATCACTGTTCTGGACGTGAACGACAATGC
CCCAGAAGTGGTCCCTCACCTCTCTCGCCAGCTCGGTTCCCGAAAAGTCTCCAGAGGGACATTAATTGCCCTTTT
AAATGTAAATGACCAAGATTCTGAGGAAAACGGACAGGTGATCTGTTTCATCCAAGGAAATCTGCCCTTTAAATT
AGAAAAATCTTACGGAAATTACTATAGTTTAGTCACAGACATAGTCTTGGATAGGGAACAGGTTCCCTAGCTACAA
CATCACAGTGACCGCCACTGACCGGGGAACCCCGCCCTATCCACGGAAACTCATATCTCGTGACGTGGCAGGA
CACCAACGACAACCCGCCGGTCTTCCCTCAGGCCTCCTATTCCGCTTATATCCCAGAGAACAATCCCAGAGGAGT
TTCCCTCGTCTCTGTGACCGCCACGACCCCGACTGTGAAGAGAACGCCCAGATCACTTATCCCTGGCTGAGAA
CACCATCCAAGGGGCAAGCCTATCGTCCCTACGTGTCCATCAACTCCGACACTGGGGTACTGTATGCGCTGAGCTC
CTTCGACTACGAGCAGTTCCGAGACTTGCAAGTGAAAGTGATGGCGCGGGACAACGGGCACCCGCCCTCAGCAG
CAACGTGTGCTTGAGCCTGTTCTGCTGGACCAGAACGACAATGCGCCCGAGATCCTGTACCCCGCCCTCCCCAC
GGACAGAGACTCCGGCCAGAACGCCTGGCTGTCTTACCGTCTGCTCAAGGCCAGCGAGCCGGGACTCTTCTCGGT
GGGTCTGCACACGGGCGAGGTGCGCACGGCGCGAGCCCTGCTGGACAGAGACGCGCTCAAGCAGAGCCTCGTAGT
GGCCGTCCAGGACCACGGCCAGCCCCCTCTCTCCGCCACTGTACGCTCACCGTGGCCGTGGCCGACAGCATCCC
CCAAGTCTTGGCGGACCTCGGCAGCCTCGAGTCTCCAGCTAACTCTGAAACCTCAGACCTCACTCTGTACCTGGT
GGTAGCGGTGGCCGCGGTCTCCTGCGTCTTCTTGGCCTTCTGTCATCTTGTGCTGGCGCTCAGGCTGCGGCGCTG
GCACAAGTCACGCCTGCTGCAGGCTTCAGGAGGCGGCTTGACAGGAGCGCCGGCGTTCGCACTTTGTGGGCGTGGA
CGGGGTGCAGGCTTTCTGTCAGACCTATTTCCACGAGGTTTCCCTCACCACGGACTCGCGGAAGAGTCACCTGAT
CTTCCCCCAGCCCAACTATGCAGACATGCTCGTCAGCCAGGAGAGCTTTGAAAAAGCGAGCCCCCTTTTGTCTGTC
AGGTGATTGCGTATTTTCTAAAGACAGTCATGGGTAAATTGAGCAAGCCCCGCCAACACGGACTGGCGTTTCTC
TCAGGCCCAGAGACCCGGCACCAGCGGCTCCCAAAATGGCGATGACACCGGCACCTGGCCCAACAACAGTTTGA
CACAGAGATGCTGCAAGCCATGATCTTGGCGTCCGCCAGTGAAGCTGCTGATGGGAGCTCCACCCTGGGAGGGGG
TGCCGGCACCATGGGATTGAGCGCCGCTACGGACCCAGTTACCCCTGCAGCACGTGCCCCACTACCGCCAGAA
TGTCTACATCCCAGGCAGCAATGCCCACTGACCAACGCAGCTGGCAAGCGGGATGGCAAGGCCCCAGCAGGTGG
CAATGGCAACAAGAAGAAGTGGGGCAAGAAGGAGAAGAAGTAAACATGGAGGCCAGGCCAAGAGCCACAGGGCGGC
CTCTCCCCAACCAGCCAGCTTCTCCTTACCTGCACCCAGGCCTCAGAGTTTTCAGGGCTAACCCCCAGAATACTG
GTAGGGGCCAAGGCCATGCTCCCCCTGGGAAACAGAAACAAGTGCCAGTCAGCACCTACCCCTTCCCCCCCAGG
GGGTGAATATGCAAAAGCAGTTCCGCTGGGAACCCCCATCCAATCAACTGCTGTACCCATGGGGGTAGTGGGGT
TACTGTAGACACCAAGAACCATTGTCACACCCCGTTAGTTACAGCTGAAGTCTTCCATCTTCCAAATCAATCA
GGCCCATCCATCCCATGCCTCCCTCCTCCCCACCCCACTCCAACAGTTCTTCTTCCCGAGTAAGGTGGTTGGGG
TGTTGAAGTACCAAGTAACCTACAAGCCTCCTAGTTCTGAAAAGTTGGAAGGGCATCATGACCTCTTGGCCTCTC
CTTTGATTCTCAATCTTCCCCCAAAGCATGGTTTGGTGCCAGCCCTTACCTCCTTCCAGAGCCCAAGATCAAT
GCTCAAGTTTGGAGGACATGATCACCATCCCCATGGTACTGATGCTTGTGGATTAGGGAGGGCATTGCTA

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FIGURE 1730B

CCAAGCCTCTTCCCAACGCCCTGGGGACCAGTCTTCTGTTTTGTTTTTCATTGTTTGACGTTTCCACTGCATGCC
TTGACTTCCCCCACCTCCTCCTCAAACAAGAGACTCCACTGCATGTTCCAAGACAGTATGGGGTGGTAAGATAAG
GAAGGGAAGTGTGTGGATGTGGATGGTGGGGGCATGGACAAAGCTTGACACATCAAGTTATCAAGGCCTTGGAGG
AGGCTCTGTATGTCTCAGGGGACTGACAACATCCTCCAGATTCCAGCCATAAAACCAATAACTAGGCTGGACCCT
TCCCACTACATAATAGGGCTCAGCCCAGGCAGCCAGCTTTGGGCTGAGCTAACAGGACCAATGGATTAACTGGC
ATTTCAGTCCAAGGAAGCTCGAAGCAGGTTTAGGACCAGGTCCCCTTGAGAGGTCAGAGGGGCCTCTGTGGGTGC
TGGGTACTCCAGAGGTGCCACTGGTGGAAGGGTCAGCGGAGCCCCAGCAGGAAGGGTGGGCCAGCCAGGCCATTC
TTAGTCCCTGGGTTGGGGAGGCAGGGAGCTAGGGCAGGGACCAAATGAACAGAAAAGTCTCAGCCCAGGATGGGGC
TTCTTCAACAGGGCCCCCTGCCCTCCTGAAGCCTCAGTCCTTACCTTGCCAGGTGCCGTTTCTCTTCCGTGAAGG
CCACTGCCCAGGTCCCCAGTGCGCCCCCTAGTGGCCATAGCCTGGTTAAAGTTCCCCAGTGCCCTCCTTGTGCATA
GACCTTCTTCTCCCACCCCCTTCTGCCCCCTGGGTCCCCGGCCATCCAGCGGGGCTGCCAGAGAACCCAGACCTG
CCCTTACAGTAGTGTAGCGCCCCCTCCCTCTTTTCGGCTGGTGTAGAATAGCCAGTAGTGTAGTGCGGTGTGCTTT
TACGTGATGGCGGGTGGGCAGCGGGCGGGCGGGCTCCGCGCAGCCGTCTGTCTTGATCTGCCCGCGGCGGCCCGT
GTTGTGTTTTGTGCTGTGTCCACGCGCTAAGGCGACCCCTCCCCGTAAGTACTGACTTCTCCTATAAGCGCTTCTCT
TCGCATAGTCACGTAGTCTCCACCCACCCCTCTTCTGTGTCTCAGCAAGTTTTATACTCTAATATTTATATGG
CTTTTTTCTTCGACAAAAAATAATAAACGTTTCTTCTGAAAAGCTG

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FIGURE 1731

MIPARLHRDYKGLVLLGILLGTLWETGCTQIRYSVP EELEKGSRVGDISRDLGLEPRELAERGVRIIPRGRTQLF
ALNPRSGSLVTAGRIDREELCMGAIKQLNLDILMEDKVKIYGVEVEVRDINDNAPYFRESELEIKISENAATEM
RFPLPHAWDPDIGKNSLQSYELSPNTHFSLIVQNGADGSKYPELVKRALDREEKAAHHLVLTASDGGDPVRTGT
ARIRVMVLDANDNAPAFAPQPEYRASVPENLALGTQLLVVNATDPDEGVNAEVRYSFYVDDKAAQVFKLDCNSGT
ISTIGELDHEESGFYQMEVQAMDNAGYSARAKVLITVLDVNDNAPEVVLTSLASSVPENSPRGTLIALLVNDQD
SEENGQVICFIQGNLPFKLEKSYGNYYSLVTDIVLDREQVPSYNITVTATDRGTPPLSTETHISLVNADTNDNPP
VFPQASYSAYIPENNPRGVSLVSVTAHDPDCEENAQITYSLAENTIQQASLSYVSINSDTGVLYALSSFDYEQF
RDLQVKVMARDNGHPPPLSSNVLSLFLVDQNDNAPEILYPALPTDGSTGVELAPRSAEPGYLVTKVAVDRDSGQ
NAWLSYRLLKASEPGLFSVGLHTGEVRTARALLDRDALKQSLVVAVQDHGQPPLSATVTLTVAVADSIPQVLADL
GSLESPANSETSDLTLYLVVAVAAVSCVFLAFVILLALLRLRRWHKSRLLQASGGGLTGAPASHFVGVDGVQAFL
QTYSHVSLTTDSRKSHLIFPQPNYADMLVSQESFEKSEPLLLSGDSVFSKDSHGLIEQAPPNTDWRFSQAQRPG
TSGSQNGDDTGTWPNNQFDTEMLQAMILASASEAADGSSTLGGGAGTMGLSARYGPQFTLQHVPDYRQNVYIPGS
NATLTNAAGKRDGKAPAGGNGNKKKSGKKEKK

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FIGURE 1732A

ATGGGGAGCGGCGCCGGGGAGCTGGGCCGGGCTGAGAGGCTGCCAGTGCTCTTTCTCTTCCTGCTGTCTTTGTTCTGCCCCGGCGCTCTGTGAGCAGATCCGCTACAGGATTCCCCGAGGAAATGCCCAAGGGCTCCGTAAGTGGGGAACCTCGCCACGGACCTGGGGTTTCAGCGTCCAGGAGTTACCGACTCGAAAACCTGCGCGTCAGTTCGGAGAAGCCTTACTTCCCGTGAGCGCAGAGAGCGGGGAGTTGCTTGTGAGCAGCAGGCTAGACAGGGAGGAGATATGCGGGAAGAAGCCA GCTTGTGCTCTGGAATTTGAGGCTGTTGCTGAAAATCCACTGAACTTTTATCACGTGAATGTGGAGATCGAGGAC ATTAATGACCACACGCCAAAATTCACGCAAAATTCCTTTGAGCTGCAAATAAGTGAGTCTGCACAGCCTGGCACA CGATTTATATTAGGATCTGCCCATGATGCGGATATTGGTAGCAACACACTGCAGAATTACCAACTCAGTCCCAGT GATCATTTCTCACTGATAAATAAAGAGAAATCAGATGGCAGTAAATACCCTGAGATGGTATTGAAGACACCTTTG GACAGAGAAAAGCAGAAATCCTACCACTTGACTTTGACTGCCTTGGACTTTGGAGCTCCACCCCTAAGCAGCACT GCACAGATACACGTTCTAGTGACTGATGCCAATGATAATGCTCCAGTGTTCAAGACGTATACAGGGTGAGC CTTTCAGAAAACGTGTACCCGGGGACCACGGTGCTACAGGTGACTGCCACGGACCAGGATGAGGGTGTCAATGCC GAGATTACTTTCTCTTTTCAGTGAAGCTAGCCAGATCACCCAATTTGACCTGAACTCTAACACCGGGGAAATTACT GTTTTAAATACATTAGATTTTGAAGAAGTCAAAGAATATTCCATAGTTTGGAAAGCAAGGGACGGTGGAGGAATG ATTGCGCAATGCACAGTGGAGGTAGAAGTCATAGATGAAAATGACAACGCCCCAGAAGTGATATTCCAGTCTCTA CCCAACCTAATTATGGAGGACGCCGAGCTGGGAACACATATTGCTTTGCTCAAAGTCCGTGACAAGGATTCCAGA CACAATGGAGAAGTGACTTGTAATTTGAAGGTGATGTTCCATTTAAAATATTAAGTCTTCAAGAAACACGTAT AAATTAGTGACAGATGCTGTTCTAGACCGCGAGCAGAATCCAGAGTACAATATAACCGTTACGGCAACAGATCGG GGCAAGCCTCCCTCTCCTCCAGTTCAGCATCACCTGCACATTGGTGATGTAAATGACAACGCTCCGGTTTTTC TCACAGTCTTCTATATAGTCCACGTGGCCGAGAACAAACCCGCTGGAGCCTCTATTTACAAGTCAGGGCTTCT GATCCGGACTTGGGGCCCAACGGCCAAGTCTCTTACTGCATCATGGCCAGTGACCTGGAGCAGCGGGAGCTGTCA TCCTACGTGTCCATAAGCGCGGAGAGCGGGGTGGTGTTCGCGCAGCGCGCCTTCGACCACGAGCAGCTGCGCGCC TTCGAATCACACTGCAGGCCCCGCGACCAGGGCTCGCCAGCGCTCAGCGCGAACGTGAGCCTGCGCGTGTAGTG GACGACCGCAACGACAATGCGCCACGGGTGCTGTACCCGCGCTGGGTCCCGACGGCTCTGCGCTCTTCGATATG GTGCCGCACGCTGCAGAGCCTGGCTACTTGGTGACCAAGGTAGTGGCGGTGGACGCAGACTCAGGACACAACGCC TGGCTGTCTACCACGTGCTGCAGGCTAGCGAGCCCCGGGCTCTTCAGCCTGGGGCTGCGCACGGGCGAAGTGCGC ACAGCGCGTGCCTTAGGCGACAGGGACGCCGTCCGCCAGCGCCTTCTGGTCGCCGTGCGTGACGGTGGACAGCCA CCACTCTCGGCCACTGCCACGTTGCACCTGGTCTTCGCCGACAGCTTGAGGAGGTGCTGCCGGATATCACTGAC CGCCCCGACCCCTCTGACCTCCAGGCTGAGCTGCAGTTTTTACCTAGTGGTGGCCTTGGCCTTGATCTCAGTGCTC TTCTCGTGGCCATGATTCTGGCCATTGCCTTGCGCCTGCGACGCTCCTCCAGCCCCGCTCCTGGAGCTGCTTC CAGCCTGGTCTCTGTGTTAAATCCGAATCCGTGGTTCCCCCAACTACAGCGAGGGGACTTTGCCTTATTCTAC AATCTATGTGTTGCACATACAGGAAAGACGGAGTTTAATTTCCATAAATGTAGTGAGCAGTTGAGTTCAGGACAA GACATACTTTGCGGTGATTCTCTGGGGCCTTATTTCCACTTTGTAATTCCAGTGAATTGACTTCCCATCAGCAA GCCCGCCCCAACACGGACTGGCGTTTCTCTCAGGCCCAGAGACCCGGCACCAGCGGCTCCCAAAATGGCGATGAC ACCGGCACCTGGCCCCAACACAGTTTGACACAGAGATGCTGCAAGCCATGATCTTGGCGTCCGCCAGTGAAGCT GCTGATGGGAGCTCCACCCTGGGAGGGGGTGCCGGCACCATGGGATTGAGCGCCCGCTACGGACCCAGTTTACC CTGCAGCACGTGCCCGACTACCGCCAGAATGTCTACATCCCAGGCAGCAATGCCACACTGACCAACGCAGCTGGC AAGCGGGATGGCAAGGCCCCAGCAGGTGGCAATGGCAACAAGAAGAAGTCGGGCAAGAAGGAGAAGAAGTAACAT GGAGGCCAGGCCAAGAGCCACAGGGCGGCCTCTCCCCAACCCAGCCAGCTTCTCCTTACCTGCACCCAGGCCTCA GAGTTTCAGGGCTAACCCCCAGAATACTGGTAGGGGCCAAGGCCATGCTCCCCTTGGGAAACAGAAACAAGTGCC CAGTCAGCACCTACCCCTTCCCCCCCCAGGGGGTTGAATATGCAAAAGCAGTTCCGCTGGGAACCCCCATCCAATC AACTGCTGTACCCATGGGGGTAGTGGGGTACTGTAGACACCAAGAACCATTGTCACACCCCGTTTAGTTACAG CTGAACTCCTCCATCTTCCAAATCAATCAGGCCCATCCATCCCATGCCTCCCTCCTCCCCACCCCACTCCAACAG TTCTCTTTCCCGAGTAAGGTGGTGGGGTGTGAAAGTACCAAGTAACCTACAAGCCTCCTAGTTCTGAAAAGTT GGAAGGGCATCATGACCTCTTGGCCTCTCCTTTGATTCTCAATCTTCCCCAAAGCATGGTTTGGTGCCAGCCCC TTCACCTCCTTCCAGAGCCCAAGATCAATGCTCAAGTTTTGGAGGACATGATCACCATCCCCATGGTACTGATGC TTGCTGGATTTAGGGAGGGCATTTTGCTACCAAGCCTCTTCCCAACGCCCTGGGGACCAGTCTTCTGTTTTGTTT TTCATTGTTTGACGTTTCCACTGCATGCCTTGACTTCCCCACCTCCTCCTCAAACAAGAGACTCCACTGCATGT TCCAAGACAGTATGGGGTGGTAAGATAAGGAAGGGAAGTGTGTGGATGTGGATGGTGGGGCATGGACAAAGCTT

FIGURE 1732B

GACACATCAAGTTATCAAGGCCTTGGAGGAGGCTCTGTATGTCTCAGGGGACTGACAACATCCTCCAGATTCCCA
GCCATAAACCAATAACTAGGCTGGACCCCTCCCACTACATAATAGGGCTCAGCCCAGGCAGCCAGCTTTGGGCTG
AGCTAACAGGACCAATGGATTAACTGGCATTTCAGTCCAAGGAAGCTCGAAGCAGGTTTAGGACCAGGTCCCCCT
TGAGAGGTGAGAGGGGCTCTGTGGGTGCTGGGTACTCCAGAGGTGCCACTGGTGGAAGGGTCAGCGGAGCCCCA
GCAGGAAGGGTGGGCCAGCCAGGCCATTCTTAGTCCCCTGGGTGGGGAGGCAGGGAGCTAGGGCAGGGACCAAAT
GAACAGAAAGTCTCAGCCCAGGATGGGGCTTCTTCAACAGGGCCCCCTGCCCTCCTGAAGCCTCAGTCCCTCACCT
TGCCAGGTGCCGTTTTCTCTTCCGTGAAGGCCACTGCCCAGGTCCCCAGTGCGCCCCCTAGTGGCCATAGCCTGGT
TAAAGTTCCCCAGTGCCCTCCTTGTGCATAGACCTTCTTCTCCACCCCTTCTGCCCTGGGTCCCCGGCCATCC
AGCGGGGCTGCCAGAGAACCCAGACCTGCCCTTACAGTAGTGTAGCGCCCCCTCCCTCTTTCGGCTGGTGTAGA
ATAGCCAGTAGTGTAGTGCGGTGTGCTTTTACGTGATGGCGGGTGGGCAGCGGGCGGGGCTCCGCGCAGCCGT
CTGTCTTGATCTGCCCGCGGGCGGCCCGTGTGTGTTTTGTGCTGTGTCCACGCGCTAAGGCGACCCCTCCCCC
GTACTGACTTCTCCTATAAGCGCTTCTCTTCGCATAGTCACGTAGCTCCACCCACCCCTCTTCTGTGTCTCAC
GCAAGTTTTATACTCTAATATTTATATGGCTTTTTTCTTCGACAAAAAATAATAAACGTTTCTTCTGAAAG
CTG

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FIGURE 1733

MSGAGELGRAERLPVLFLLSLFCPALCEQIRYRIPEEMPKGSVVGNLATDLGFSVQELPTRKLRVSSEKPYF
TVSAESGELLVSSRLDREEICGKKPACALEFEAVAENPLNFYHVNVEIEDINDHTPKFTQNSFELQISESAQPGT
RFILGSAHDADIGSNTLQNYQLSPSDHFSLINKEKSDGSKYPEMVLKTPLDREKQKSYHLTLTALDFGAPPLSST
AQIHVLVTDANDNAPVFSQDVYRVSLSENVYPGTTVLQVTATDQDEGVNAEITFSFSEASQITQFDLNSNTGEIT
VLNTLDFEEVKEYSIVLEARDGGGMIAQCTVEVEVIDENDNAPEVIFQSLPNLIMEDAELGTHIALLKVRDKDSR
HNGEVTCLEGDVPFKILTSSRNTYKLVTDAVLDRQNPEYNITVTATDRGKPPLSSSSSITLHIGDVNDNAPVF
SQSSYIVHVAENNPPGASISQVRASDPDLGPNQVSYCIMASDLEQRELSSYVSISAESGVVFAQRAFDHEQLRA
FELTLQARDQGSPALSANVSLRVLVDDRNDNAPRVLYPALGPDGSALFDMVPHAAEPGYLVTKVVAVDADSGHNA
WLSYHVLQASEPGLFSLGLRTGEVRTARALGDRDAVRQRLLVAVRDGGQPPLSATATLHLVFADSLQEVLPDITD
RPDPSDLQAELOFYLVVALALISVFLVAMILAIALRLRRSSSPASWSCFQPGLCVKSESVPVPPNYSEGTLPSY
NLCVAHTGKTEFNFLKCSEQLSSGQDILCGDSSGALFPLCNSSSELTSHQQAPPNTDWRFSQAQRPGTSGSQNGDD
TGTWPNNQFDTEMLQAMILASASEAADGSSTLGGGAGTMGLSARYGPQFTLQHVPDYRQNVYIPGSNATLTNAAG
KRDGKAPAGNGNKKKSGKKEKK

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FIGURE 1734A

ATGAAGATTCAGAAAAAGCTGACTGGCTGCAGCAGGCTGATGCTTCTGTGTCTTTCTCTGGAGCTGCTGTTGGAA
GCTGGGGCTGGGAATATTTCACTACTCAGTGCCGGAAGAGACAGACAAAGGTTCTTCGTAGGCAACATCGCCAAG
GACCTAGGGCTGCAACCCCAGGAGCTGGCAGATGGCGGAGTCCGCATCGTCTCCAGAGGTAGGATGCCGCTTTTC
GCTCTGAATCCTAGAAGTGGCAGCTTGATCACC CGCGCAGGATAGACCGGGAGGAGCTCTGCGCTCAGAGCATG
CCGTGTCTCGTGAGTTTTAATATCCTTGTTGAGGATAAAATGAAGCTTTTTCTGTTGAAGTAGAAATAATTGAT
ATTAATGACAACACTCCCCAATTCCAGTTAGAGGAACTGGAGTTTAAAATGAATGAAATAACGACTCCAGGTACC
AGAGTCTCATTGCCTTTTGGGCAAGACCTTGATGTGGGTATGAACTCACTCCAGAGCTACCAACTCAGCTCTAAC
CCTCATTTCTCCCTGGATGTGCAACAGGGAGCCGATGGGCCTCAACATCCAGAGATGGTGCTGCAGAGTCCCTTA
GACAGAGAAGAAGAGCTGTCCACCACCTCATCTCACAGCTTCTGATGGGGGTGAACCAGTCCGTTCAGGGACC
CTCAGAAATTTACATTCAGGTGGTGGATGCAATGACAATCCTCCAGCATTTACTCAGGCACAATACCATATAAAT
GTCCCCGAAAACGTGCCGTGGGTACTCAGCTGCTCATGGTAAATGCCACTGACCCTGATGAGGGAGCCAATGGG
GAAGTAACGTACTCCTTTCACAATGTAGACCACAGAGTGGCCCAATATTTTCGTTTAGATTCTTACACAGGAGAA
ATATCAAATAAAGAACCCTAGATTTTGAAGAATACAAATGTATTCAATGGAAGTTCAAGCCCAGGATGGTGCG
GGGCTCATGGCTAAAGTTAAGGTACTGATCAAAGTTTTGGATGTAAATGATAATGCCCCAGAAGTGACCATCACC
TCTGTCAACCACTGCAGTTCAGAAAACCTTTCCTCCTGGGACCATAATTGCTCTTATCAGTGTGCATGACCAGGAC
TCAGGAGACAATGGCTACACCACATGTTTCATTCTGGAAATTTACCTTTAAATTGGAAAAGTTAGTTGATAAT
TATTACCGTTTAGTGACTGAAAGAACTGGACAGAGAATTTATCTCTGGGTACAACATCACAATAACAGCAATA
GACCAAGGAACCTCAGCTCTATCTACTGAACTCACATTTCACTACTAGTGACAGATATCAATGACAACCTCCCCA
GTCTTCCATCAGGACTCCTACTCTGCCTACATTCCC GAAAACAACCCCAGAGGAGCCTCCATCTTCTGTGAGG
GCCCACGACTTGGACAGCAATGAGAATGCACAAATCACTTACTCCCTAATAGAGGACACTATCCAGGGGGCAGCC
CTATCTGCCTACCTCTCCATCAACTCCGACACTGGGGTCTGTATGCGCTGCGATCCTTCGACTATGAGCAGTTC
CGGGACATGCAACTGAAAGTGATGGCGCGGGACAGTGGGGATCCGCCCTCAGCAGCAACGTGTCTCTCAGCCTA
TTCTGTCTGGACCAGAACGACAACGCGCCCGAGATCCTGTACCCCGCCCTCCCCACAGATGGTTCTACCGGCGTG
GAGCTGGCGCCCCCTCTCCGCAGAGCCCGGTACCTGGTGACCAAGGTGGTGGCGGTGGACAGAGACTCGGGCCAG
AACGCCTGGCTGTCTTACCGCTGTCAAGGCCAGCGAGCCGGGACTCTTCTCGGTGGGTCTGCACACGGGCGAG
GTGCGCACGGCGCGAGCCCTGCTGGACAGAGACGCGCTCAAGCAGAGTCTCGTGGTGGCCGTCCAGGACCACGGC
CAGCCCCGCTCTCCGCCACTGTCACGCTACCGTGGCGTGGCCGACAGGATCTCCGACATCCTGGCCGACCTG
GGCAGCCTCGAGCCCTCCGCCAAACCCAAACGATTCCGACCTCACTCTGTACCTGGTGGTGGCGGCGGCCGCGT
TCCTGCGTCTTCTGGCCTTCGTCATCGTGCTGCTGGCGCACAGGCTGCGGCGCTGGCACAAGTCACGTCTGCTA
CAGGCTTCGGGAGGCGGCTTAGCGAGCATGCCCGTTTCGACTTTGTGGGCGTGGACGGGGTTTCGGGCTTTCCTG
CAGACCTATTCCCACGAGGTCTCCCTCACTGCGGACTCGCGGAAGAGCCACCTGATTTTCCCCAGCCCACTAT
GCGGACACACTCATCAGCCAGGAGAGCTGTGAGAAAAAGGGTTTTCTATCAGCACCCCAGTCTTTACTTGAAGAC
AAAAAGGAACCATTTTCTCAGCAAGCCCCGCCCAACACGGACTGGCGTTTTCTCTCAGGCCCAGAGACCCGGCACC
AGCGGCTCCCAAAATGGCGATGACACCGGCACCTGGCCCAACAACAGTTTGACACAGAGATGCTGCAAGCCATG
ATCTTGGCGTCCGCCAGTGAAGCTGCTGATGGGAGCTCCACCCTGGGAGGGGGTGCCGGCACCATGGGATTGAGC
GCCCCGTACGGACCCCAAGTTTACCCCTGCAGCACGTGCCGACTACCGCCAGAATGTCTACATCCAGGCAGCAAT
GCCACACTGACCAACGCAGCTGGCAAGCGGGATGGCAAGGCCCCAGCAGGTGGCAATGGCAACAAGAAGAAGTCG
GGCAAGAAGGAGAAGAAGTAAACATGGAGGCCAGGCCAAGAGCCACAGGGCGGCCTCTCCCCAACAGCCCAGCTT
CTCCTTACCTGCACCCAGGCCCTCAGAGTTTCAGGGCTAACCCCCAGAATACTGGTAGGGGCCAAGGCCATGCTCC
CCTTGGGAAACAGAAACAAGTGCCAGTCAGCACCTACCCCTTCCCCCCCAGGGGGTTGAATATGCAAAAGCAGT
TCCGCTGGGAACCCCCATCCAATCAACTGCTGTACCCATGGGGGTAGTGGGGTTACTGTAGACACCAAGAACCAT
TTGCCACACCCCGTTTAGTTACAGCTGAACTCCTCCATCTTCAAATCAATCAGGCCCATCCATCCCATGCTCC
CTCCTCCCCACCCCACTCCAACAGTTCTCTTTCCCGAGTAAGGTGGTTGGGGTGTGAAGTACCAAGTAACCTA
CAAGCCTCCTAGTTCTGAAAAGTTGGAAGGGCATCATGACCTCTTGGCCTCTCCTTTGATTCTCAATCTTCCCCC
AAAGCATGGTTTGGTGCCAGCCCTTACCTCCTTCCAGAGCCCAAGATCAATGCTCAAGTTTGGAGGACATGA
TCACCATCCCCATGGTACTGATGCTTGCTGGATTTAGGGAGGGCATTGCTACCAAGCCTCTTCCCCAACGCCCT
GGGGACAGTCTTCTGTTTTGTTTTTCAATTGTTTGACGTTTCCACTGCATGCCTTGACTTCCCCACCTCCTCCT
CAAACAAGAGACTCCACTGCATGTTCCAAGACAGTATGGGGTGGTAAGATAAGGAAGGGAAGTGTGTGGATGTGG

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FIGURE 1734B

ATGGTGGGGGCATGGACAAAGCTTGACACATCAAGTTATCAAGGCCTTGGAGGAGGCTCTGTATGTCCTCAGGGG
ACTGACAACATCCTCCAGATTCCAGCCATAAACCAATAACTAGGCTGGACCCTTCCCACTACATAATAGGGCTCA
GCCCAGGCAGCCAGCTTTGGGCTGAGCTAACAGGACCAATGGATTAAACTGGCATTTCAGTCCAAGGAAGCTCGA
AGCAGGTTTAGGACCAGGTCCCCTTGAGAGGTCAGAGGGGCTCTGTGGGTGCTGGGTACTCCAGAGGTGCCACT
GGTGGAAGGGTCAGCGGAGCCCCAGCAGGAAGGGTGGGCCAGCCAGGCCATTCTTAGTCCCTGGGTGGGGAGGC
AGGGAGCTAGGGCAGGGACCAAATGAACAGAAAGTCTCAGCCCAGGATGGGGCTTCTTCAACAGGGCCCCCTGCCC
TCCTGAAGCCTCAGTCCTTCACCTTGCCAGGTGCCGTTTCTCTTCCGTGAAGGCCACTGCCCAGGTCCCCAGTGC
GCCCCCTAGTGGCCATAGCCTGGTTAAAGTTCCCCAGTGCCTCCTTGTGCATAGACCTTCTTCTCCCACCCCTT
CTGCCCCCTGGGTCCCCGGCCATCCAGCGGGGCTGCCAGAGAACCCCAGACCTGCCCTTACAGTAGTGTAGCGCCC
CCTCCCTCTTTCGGCTGGTGTAGAAATAGCCAGTAGTGTAGTGCGGTGTGCTTTTACGTGATGGCGGGTGGGCAGC
GGGCGGCGGGCTCCGCGCAGCCGTCTGTCCTTGATCTGCCGCGGCGGCGCCGTTGTGTTTTGTGCTGTGTCCA
CGCGCTAAGGCGACCCCTCCCCCGTACTGACTTCTCCTATAAGCGCTTCTCTTCGCATAGTCACGTAGCTCCCA
CCCCACCCTCTTCTGTGTCTCACGCAAGTTTTATACTCTAATATTTATATGGCTTTTTTTCTTCGACAAAAAA
TAATAAACGTTTCTTCTGAAAAGCTG

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FIGURE 1735

MKIQKKLTGCSRLMLLCLSELELLEAGAGNIHYSVPEETDKGSFVGNI AKDLGLQPQELADGGVRIVSRGRMPLF
ALNPRSGSLITARRIDREELCAQSMPCLVSNILVEDKMKLFPVEVEIIDINDNTPQFQLEEELEFKMNEITTPGT
RVSLPFGQDL DVGMNSLQSYQLSSNP HFSLDVQQGADGPQHPEMVLQSP LDREEEAVHHLILTASDGGE PVRS GT
LRIYIQVVDANDNPPAFTQAQYHINVPENVPLGTQLLMVNATDPDEGANGEVTYSFHNVDHRVAQIFRLDSYTGE
ISNKEPLDFEYKMYSM EVQAQDGAGLMAKVVKLIKVL DVNDNAPEVTITSVTTAVPENFP PGTI IALISVHDQD
SGDNGYTTCFIPGNLPFKLEKLVDNYRLV TERTLDRELISGYNITITAITDQGTPALSTETHISLLVTDINDNSP
VFHQDSYSAYIPENNPRGASIFSVRAHDLD SNENAIQITYSLIEDTIQGAPLSAYLSINSDTGVLYALRSFDYEQF
RDMQLKVMARDSGDPPLSSNVSLSLFLLDQNDNAPEILYPALPTDGSTGVELAPLSAEPGYLVTKVVAVDRDSGQ
NAWLSYRLKASEPGLFSVGLHTGEVRTARALLDRDALKQSLVVAVQDHGQPPLSATVTLTVAVADRISDILADL
GSLEPSAKPNDSDLTLYLVAAAAVSCVFLAFVIVLLAHLRLRRWHKSRLLQASGGGLASMPGSHFVGVDGVRAFL
QTYSHEVSLTADSRKSHLIFPQPNYADTLISQESCEKKGFLSAPQSLLEDKKEPFSQQAPPNTDWRFSQAQRPGT
SGSQNGDDTGTWPNNQFDTEMLQAMILASASEAADGSSTLGGGAGTMGLSARYGPQFTLQHVPDYRQNVYIPGSN
ATLTNAAGKRDGKAPAGGNGNKKKSGKKEKK

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FIGURE 1736A

ATGGCCGCTCAAAGGAATCGCTCAAAGGAATCAAAGGATTGCAGCGGGCTGGTCTGCTCTGCCTTTTCTTCGGG
ATTCCATGGGAGGCTGGAGCCCGGCAGATCTCCTACTCAATTCTGAGGAATTAGAGAAAGGCTCTTTCGTGGGC
AACATCTCCAAGGACTTGGGTCTGGCGCCCCGGGAGCTGGCGGAGCGCGGAGTCCGCATAGTCTCCAGAGGTAGG
ACGCAGCTTTTCTCTCTGAACCCGCGCAGCGGCAGCTTGATCACCGCGGGCAGGATAGACCGGGAGGAGCTCTGC
GCTCAGAGCGCGCGGTGCGTGGTGAGTTTTAATATCCTTGTTGGAAGACAGGGTGAACTTTTTGGGATAGAAATA
GAAGTAACTGATATCAATGACAATGCTCCAAAATTCCAAGCAGAAAATCTAGACGTAAAAATTAATGAAAATGTC
GCTGCGGGAATGCGTTTTCTCTCCCGGAAGCTATTGATCCGGATGTGGGCGTGAACCTCCCTGCAGAGCTATCAG
CTCAGCCCCAATAAGCACTTCTCCCTAAGAGTTTCAAGAGCCGTGCCAATGGCGTCAAGTACCCGGAGCTGGTACTG
GAGCACTCCCTAGATCGCGAGGAAGAGGCCATTACACACCTGGTCTCACCCTCCGACGGGGGTGACCCTCTC
CGATCTGGCACTGTCTTGTGCTGAGTGTGACTGTCTTCGATGCAAATGACAACGCGCCGGTCTTACCTTGCCAGAA
TACCGAGTGAGTGTCTCTGAGAATTTGCCTGTGGGCACTCAGCTGCTGACAGTCACAGCCACCGACAGGGACGAA
GGTGCCAATGGAGAAGTGACATATTCATTCCGAAAATTACCTGACACGCAATTGTTGAAGTTCCAACATAACAAA
TATACTGGAGAAAATAAAATATCAGAAAATCTAGATTATGAAGAAACCGGTTTCTATGAAATAGAAATACAAGCA
GAAGATGGAGGAGCATATCTTGCAACTGCAAAAGTGTGATTACAGTAGAAGATGTAAATGACAACAGTCCAGAG
CTGACCATCACGTCTCTATTTAGTCCAGTGACTGAAGATTCACCTCTGGGAACAGTCGTAGCCCTTTTAAATGTG
CATGATTTAGACTCTGAGCAGAATGGACAGGTAACCTGTTCCATTTTGGCGTATCTACCATTTAAATTAGAAAAG
TCCATTGACAGTTATTACAGATTGGTGATACACAGAGCCCTTGACAGGGAACAGGTATCCTCTTACAATATCACA
GTGACAGCCACAGATGGGGGAAGTCTCTCTATCAACGGAAGCTCACTTTATGCTACAAGTGGCAGATATCAAT
GACAACCCACCTACCTTCTCTCAAGTCTCTACTTTACCTATATCCAGAGAACACGCCAGGGGTGCCTCCATC
TTCTCAGTGACAGCGCTGGACCCGGACAGCAAAGAGAATGCCAGATTATTTACTCCCTGGCTGAAGACACCATC
CAGGGGTACCTCTGTCTCATAACATCACTCACTCAGACACTGGCGTCTCTGTATGCACTCAGATCCTTCGAC
TATGAGCAGTTTCATGAGCTACAGATGCAGGTGACAGCCAGCGACAGCGGGGATCCTCCACTCAGCAGCAACGTG
TCGTTGAGCCTGTTTGTGCTGGACAGAACGACAATGCGCCCGAGATCCTGTACCCCGCCCTCCACAGACGGT
TCCACAGGCGTGGAGCTGGCGCCCCGCTCCGCAGAGCCCGGTACCTGGTGACCAAGGTGGTGGCGGTGGACAGA
GACTCCGGCCAGAACGCCTGGCTGTCTACCGTCTGCTCAAGGCCAGCGAGCCGGGACTCTTCGCGGTGGGGGAG
CACAGGGGCGAGGTGCGCACGGCGCGAGCCCTGCTGGACAGAGACGCGCTCAAGCAAAGCCTCGTAGTGGCCGTC
CAGGACCACGGCCAGCCCCCTCTCTCCGCCACTGTCACGCTCACCGTGGCCGTGGCCGACAGCATCCCCAAGTC
CTGGCGGACCTCGGCAGCTTCGAGTCTCCAGCTAACTCTGAAACCTCAGACCTCACTCTGTACCTGGTGGTAGCG
GTGGCCGCGGTCTCTCTGCGTCTTCTGGCCTTCGTCATCGTGCTGCTGGCGCACAGGCTGCGGCGCTGGCACAAG
TCACGCCTGCTGCAGGCTTCAGGAGGCGGCTTGACAGGTGTGTCCGGCTCGCACTTTGTGGGCGTGGACGGGGTT
CGGGCTTTCTCTGACAGCTATTCCCACGAGGTCTCTCTCACCGCGGACTCGCGAAAGAGTCACTGATCTTCCCC
CAGCCCAATTATGCGGACACGCTCATCAGCCAGGAGAGCTGTGAGAAAACGATCCTTTGTCTTTGTAGATGAT
TCGAAGTTTCTATAGAGGATACCCCATTTGGTTCCACAAGCCCGCCCAACACGGAAGTGGCGTTTCTCTCAGGCC
CAGAGACCCGGCACCAGCGGCTCCCAAAATGGCGATGACACCGGCACCTGGCCCAACAACAGTTTGACACAGAG
ATGCTGCAAGCCATGATCTTGGCGTCCGCCAGTGAAGCTGCTGATGGGAGCTCCACCCTGGGAGGGGGTGCCGGC
ACCATGGGATTGAGCGCCCCGTACGGACCCAGTTACCCCTGCAGCACGTGCCCGACTACCGCCAGAATGTCTAC
ATCCCAGGCAGCAATGCCACACTGACCAACGCAGCTGGCAAGCGGGATGGCAAGGCCCCAGCAGGTGGCAATGGC
AACAAGAAGAAGTCGGGCAAGAAGGAGAAGAAGTAAACATGGAGGCCAGGCCAAGAGCCACAGGGCGGCCTCTCCC
CAACCAGCCAGCTTCTCCTTACCTGCACCCAGGCCTCAGAGTTTCAGGGCTAACCCCCAGAATACTGGTAGGGG
CCAAGGCCATGCTCCCTTGGGAAACAGAAACAAGTGCCAGTCAGCACCTACCCCTTCCCCCAGGGGGTTGA
ATATGCAAAAGCAGTTCCGCTGGGAACCCCCATCCAATCAACTGCTGTACCCATGGGGGTAGTGGGGTTACTGTA
GACACCAAGAACCATTGCCACACCCCGTTTAGTTACAGCTGAACTCCTCCATCTTCCAAATCAATCAGGCCCCAT
CCATCCCATGCCTCCCTCTCCCCACCCCACTCCAACAGTTCTCTTTCCCGAGTAAGGTGGTTGGGGTTGTA
GTACCAAGTAACCTACAAGCTCCTAGTTCTGAAAAGTTGGAAGGGCATCATGACCTCTTGGCCTCTCCTTTGAT
TCTCAATCTTCCCCCAAAGCATGGTTTGGTGCCAGCCCTTACCTCCTTCCAGAGCCCAAGATCAATGCTCAAG
TTTTGGAGGACATGATCACCATCCCCATGGTACTGATGCTTGCTGGATTAGGGAGGGCATTTTGCTACCAAGCC
TCTTCCCAACGCCCTGGGGACAGTCTTCTGTTTTGTTTTTCAATTGTTTGACGTTTCCACTGCATGCCTTGACTT
CCCCACCTCCTCTCAACAAGAGACTCCACTGCATGTTCCAAGACAGTATGGGGTGGTAAGATAAGGAAGGGA

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FIGURE 1736B

AGTGTGTGGATGTGGATGGTGGGGGCATGGACAAAGCTTGACACATCAAGTTATCAAGGCCTTGGAGGAGGCTCT
GTATGTCCTCAGGGGACTGACAACATCCTCCAGATTCCAGCCATAAACCAATAACTAGGCTGGACCCCTCCCACT
ACATAATAGGGCTCAGCCCAGGCAGCCAGCTTTGGGCTGAGCTAACAGGACCAATGGATTAAACTGGCATTTCAG
TCCAAGGAAGCTCGAAGCAGGTTTAGGACCAGGTCCCCTTGAGAGGTGAGAGGGGCCTCTGTGGGTGCTGGGTAC
TCCAGAGGTGCCACTGGTGGAAAGGGTCAGCGGAGCCCCAGCAGGAAGGGTGGGCCAGCCAGGCCATTCTTAGTCC
CTGGGTTGGGGAGGCAGGGAGCTAGGGCAGGGACCAATGAACAGAAAGTCTCAGCCCAGGATGGGGCTTCTTCA
ACAGGGCCCCTGCCCTCCTGAAGCCTCAGTCCTTCACCTTGCCAGGTGCCGTTTCTCTTCCGTGAAGGCCACTGC
CCAGGTCCCCAGTGCGCCCCCTAGTGGCCATAGCCTGGTTAAAGTTCCCCAGTGCTCCTTGTCATAGACCTTC
TTCTCCCACCCCTTCTGCCCCCTGGGTCCCCGGCCATCCAGCGGGGCTGCCAGAGAACCCAGACCTGCCCTTAC
AGTAGTGTAAGCGCCCCCTCCCTCTTTTCGGCTGGTGTAGAAATAGCCAGTAGTGTAAGTGCAGGTGTGCTTTTACGTGA
TGGCGGGTGGGCAGCGGGCGGCGGGCTCCGCGCAGCCGTCTGTCCTTGATCTGCCCCGCGGCGGCCCGTGTGTGT
TTTGTGCTGTGTCCACGCGCTAAGGCGACCCCTCCCCGTAAGTACTTCTCCTATAAGCGCTTCTCTTCGCATA
GTCACGTAGCTCCCACCCACCCCTCTTCCTGTGTCTCAGCAAGTTTTATACTCTAATATTTATATGGCTTTTTT
TCTTCGACAAAAAATAATAAACGTTTCTTCTGAAAAGCTG

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FIGURE 1737

MAAQRNRSKESKDCSGLVLLCLFFGIPWEAGARQISYSIPEELEKGSFVGNISKDLGLAPRELAERGVRIVSRGR
TQLFSLNPRSGSLITAGRIDREELCAQSARCVVSFNILVEDRVKLFGEIEVTDINDNAPKFQAE NL DVKINENV
AAGMRFP LPEAIDPDVGVNSLQSYQLSPNKHFSLRVQSRANGVKYPELVLEHSLDREEEAIHHLVLTASDGGDPL
RSGTVLVSVTVFDANDNAPVFTLPEYRVSVPENLPVGTQLLTVTATDRDEGANGEVTYSFRKL PDTQLLK FQLNK
YTGEIKISENL DYEETGFYEIEIQAEDGGAYLATAKVLITVEDVNDNSPELTITSLFSPVTEDSPLGTVVALLNV
HDL DSEQNGQVTC SILAYLPFKLEKSIDSYYRLVIHRA LDREQVSSYNITVTATDGGSPPLSTEAHFMLQVADIN
DNPPTFSQVSYFTYIPENNARGASIFSVTALDPDSKENAQIIYSLAEDTIQGVPLSSYISINSDTGVLYALRSFD
YEQFH ELMQV TASDSGDPPLSSNVSLSLFVLDQNDNAPEILYPALPTDGSTGVELAPRSAEPGYLVTKVAVDR
DSGQNAWLSYRL LKASEPGLFAVGEHTGEVRTARALLDRDALKQSLVAVQDHGQPPLSATVTLTVAVADSIPQV
LADLGSFESPANSETSDLTLYLVVAVAAVSCVFLAFVIVLLAHRLRRWHKSRL LQASGGGLTGVSGSHFVGVDGV
RAFLQ TYSHEVSLTADSRKSHLIFPQPNYADTLISQESCEKNDPLSLDDSKFPIEDTPLVPQAPPNTDWRF SQA
QRPGTSGSQNGDDTGTWPNNQFDTEMLQAMILASASEAADGSSTLGGGAGTMGLSARYGPQFTLQHVPDYRQNVY
IPGSNATLTNAAGKRDGKAPAGGNNGNKKKSGKKEKK

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FIGURE 1738A

AGAATGGGCTCTAGGCGCCGCTGCTACCAATCAGGGAATGGGAAGCTGCGCGCCATTGAGTCCCTCCCTCCCC
GCCTCTACCACACAAAGCGGAATGAGATGGATACTCACAGATCCTGACACTGGAGACTTAGAAGTATTTTCCTTC
GCTTCTGATATATTTTGGATGTAGTCGGCCTAGGACTTCATAGATACATAAGCCGATTACAACCAACCAGCTC
GAGAAACCGCGGAATATCGGCTTAGAGCCTGCCATGGCGAATCGGCTACAGCGCGGGGACCGCAGTCGGCTGCTG
CTGCTGCTGTGCATTTTCCTGGGGACGCTGCGGGGGTTCCGGGCCAGGCAGATCCGATATTCGGTGCCAGAAGAG
ACCGAAAAGGGCTCCTTCGTGGGCAATATCTCCAAGGACCTGGGGCTGGAGCCCCGGGAGCTGGCGAAGCGCGGA
GTCCGCATCGTCTCCAGAGGGAAGACACAGCTTTTCGCTGTGAATCCGCGAAGCGGCAGCTTGATCACGGCAGGC
AGGATAGACCGGGAGGAGCTCTGTGAGACGGTGTCTCTCTGTTTTTAAATATGGAACCTCTCGTGGAAGACACC
TTGAAGATTTACGGAGTGGAGGTGGAAATAATAGATATTAATGATAACGCCCCAGCTTCCAGGAGGACGAAGTG
GAGATAAAAGTCAGTGAGCACGCAATTCCTGGGGCGCGATTGCTCTTCCTAATGCTAGGGATCCAGATGTGGGC
GTGAACCTCCCTCCAGAGCTACCAGCTCAGCCCTAATAATTACTTTTCCTTGCAACTGCGGGGCAGAACGGATGGG
GCCAAGAATCCAGAGCTAGTACTGGAGGGAAGCCTGGACCGAGAGAAAGAGGCTGCTCACCTGCTCCTCCTCACA
GCTTTAGATGGAGGCGATCCCATCCGAAAGGGCGCAGTTCCCATTCGTGTGGTGGTCTCGATGTAAATGATCAC
ATCCCAATGTTTACACAGTCCGTATATCGCGTGAGTGTTCCAGAAAACATCAGCTCCGGAACCTCGGGTGCTGATG
GTTAATGCAACGGATCCAGACGAGGGAATCAACGGGGGAAGTAATGTATTTCATTTGGAACATGGAAGCAAGGCT
TCTGAAATATTCCAATTGGATTACAAACTGGGAAAGTTCAAGTACGGGGTCTCTGGATTTTGAAAAATATAGA
TTCTATGAGATGGAATTCAGGCAAGATGGTGGAGGTCTCTTTACCACCACGACGATGTTGATCACTGTTGTG
GATGTGAATGATAACGCTCCAGAAATAACTATCACCTCTTCTATTAATTCAATTCTGGAAACTCTCCTCCAGGT
ACAGTGATTGCTCTTCTAAATGTGCAAGATCAAGATTCTGGAGAAAATGGTCAAGTCTCCTGTTTTATTCTAAC
CACCTGCCTTTTAAATTAGAAAAGACTTATGGAAATTATTACAAATTGATAACAAGCAGAGTGCTGGACAGGGAG
TTGGTCCAGAGCTACAATATAACGTTGACAGCCACAGACCAGGGAAGCCCGCCTTTGTCTGCAGAACTCATGTC
TGGCTGAATGTGGCAGATGACAACGATAACCCCTCCCGTTTTCTCACTCCTCTTACTCTGCCTACATTCCCGAA
AACAACCCCAAGGGGTGCCTCCATCTTCTCAGTGACCGCCCTCGACCCGACAGCAAACAGAATGCCCTGGTCACT
TACTCTCTGACGGATGACACTGTCCAGGGGTGCCTCTGTCTCTATGTCTCTATTAACTCCAACACTGGTGT
CTCTATGCCCTACAATCCTTCGACTATGAGCAGTTTCGAGACTTAGAAGTGAAGTGAAGCAGTGAACGCGGG
GACCCGCCCTCAGCAGCAACGTGTGCTGAGCCTGTTCTGTCTGGACCAGAACGACAATGCGCCCGAGATCCTG
TACCTTGCCCTCCCCACAGACGGCTCCACTGGCGTGAGCTGGCGCCCCGCTCTGCGGAACCTGGCTACCTGGTG
ACCAAGGTGGTTGCGGTGGACAAAGATTAGGCCAGAACGCCTGGCTGTCTATCGCTGCTTAAGGCCAGCGAG
CCGGGACTCTTCGCGGTGGGGGAGCACACGGGCGAGGTGCGTACAGCGCGGGCACTGCTGGACAGAGACGCGCTC
AAGCAGAGCCTCGTGGTGGCCGTCCAGGACCACGGCCAGCCCCCTCTCTCGGCCACCGTCACGCTACCGTGCT
GTGGCCGACAGCATCCCCGAAGTCTTGCGGACCTCGGCAGCCTCGAGTCTCTGGCTAACTCTGAAACCTCAGAC
CTCTCGCTGTACTTGGTGGTGGCGGTGGCCGAGTCTCCTGCATCTTCTGGTCTTTGTCTATCGTGTCTGGCA
CTCAGGCTGTGGCGCTGGCATAAGTCACGCCTGCTGCAGGCTTCTGAAGGCGGGTTGGCAGGTATGCCACGTCA
CATTTTGTAGGCGTGACGGGGTACAGGCTTTCTGCAAACTATTCCCACGAGGTCTCTCTCATTGCGGACTCG
CAGAAGAGTCACCTGATTTTCCCCAGCCCAACTATGGGGACACGCTCATCAGCCAGGAGAGCTGTGAGAAAAGC
GAGCCACTCTTGATAGCTGAAGACTCAGCTATCATTTTAGGCAAAATGTGACCCGACAAGTAATCAGCAAGCCCCG
CCCAACACGGACTGGCGTTTTCTCTCAGGCCAGAGACCCGGCACAGCGGCTCCCAAAATGGCGATGACACCGGC
ACCTGGCCCAACAACAGTTTGACACAGAGATGCTGCAAGCCATGATCTTGGCGTCCGCCAGTGAAGCTGCTGAT
GGGAGCTCCACCCTGGGAGGGGGTGCCGGCACCATGGGATTGAGCGCCCGCTACGGACCCAGTTACCCCTGCAG
CACGTGCCCGACTACCGCCAGAATGTCTACATCCCAGGCAGCAATGCCACACTGACCAACGCAGCTGGCAAGCGG
GATGGCAAGGCCCCAGCAGGTGGCAATGGCAACAAGAAGTCCGGCAAGAAGGAGAAGAAGTAACATGGAGGC
CAGGCCAAGAGCCACAGGGCGGCCTCTCCCCAACAGCCAGCTTCTCCTTACCTGCACCCAGGCCTCAGAGTTT
CAGGGCTAACCCCCAGAATACTGGTAGGGGCCAAGGCCATGCTCCCTTGGGAAACAGAAACAAGTGCCCACTCA
GCACCTACCCCTTCCCCCCCCAGGGGGTTGAATATGCAAAAGCAGTTCCGCTGGGAACCCCATCCAATCAACTGC
TGTAACCATGGGGGTAGTGGGGTTACTGTAGACACCAAGAACCATTGCCACACCCCGTTTAGTTACAGCTGAAC
TCCTCCATCTTCCAAATCAATCAGGCCCATCCATCCATGCCTCCCTCCTCCCCACCCACTCCAACAGTTCCCTC
TTTCCCGAGTAAGGTGGTTGGGGTGTGAAAGTACCAAGTAACCTACAAGCCTCCTAGTTCTGAAAAGTTGGAAGG
GCATCATGACCTCTTGGCCTCTCCTTTGATTCTCAATCTTCCCCAAAGCATGGTTTGGTGCCAGCCCTTCACC

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FIGURE 1738B

TCCTTCCAGAGCCCAAGATCAATGCTCAAGTTTTGGAGGACATGATCACCATCCCCATGGTACTGATGCTTGCTG
GATTTAGGGAGGGCATTTTGCTACCAAGCCTCTTCCCAACGCCCTGGGGACCAGTCTTCTGTTTTGTTTTTCATT
GTTTGACGTTTCCACTGCATGCCTTGACTTCCCCCACCTCCTCCTCAAACAAGAGACTCCACTGCATGTTCCAAG
ACAGTATGGGGTGGTAAGATAAGGAAGGGAAGTGTGTGGATGTGGATGGTGGGGGCATGGACAAAGCTTGACACA
TCAAGTTATCAAGGCCTTGGAGGAGGCTCTGTATGTCCTCAGGGGACTGACAACATCCTCCAGATTCCAGCCATA
AACCAATAACTAGGCTGGACCCTTCCCCTACATAATAGGGCTCAGCCAGGCAGCCAGCTTTGGGCTGAGCTAA
CAGGACCAATGGATTAAACTGGCATTTCAGTCCAAGGAAGCTCGAAGCAGGTTTAGGACCAGGTCCCCTTGAGAG
GTCAGAGGGGCCTCTGTGGGTGCTGGGTACTCCAGAGGTGCCACTGGTGGAAGGGTCAGCGGAGCCCCAGCAGGA
AGGGTGGGCCAGCCAGGCCATTCTTAGTCCCTGGGTGAGGAGGAGCTAGGGCAGGGACCAAATGAACAG
AAAGTCTCAGCCCAGGATGGGGCTTCTTCAACAGGGCCCCTGCCCTCCTGAAGCCTCAGTCCCTCACCTTGCCAG
GTGCCGTTTCTCTTCCGTGAAGGCCACTGCCCAGGTCCCAGTGCGCCCCCTAGTGGCCATAGCCTGGTTAAAGT
TCCCCAGTGCCCTCCTTGTCATAGACCTTCTTCTCCACCCCCTTCTGCCCCCTGGGTCCCCGGCCATCCAGCGGG
GCTGCCAGAGAACCCAGACCTGCCCTTACAGTAGTGTAGCGCCCCCTCCCTCTTTCGGCTGGTGTAGAATAGCC
AGTAGTGTAGTGCGGTGTGCTTTACGTGATGGCGGGTGGGCAGCGGGCGGCGGGCTCCGCGCAGCCGTCTGTCC
TTGATCTGCCCCGCGGCGGCCCGTGTGTGTTTTGTGCTGTGTCCACGCGCTAAGGCGACCCCCCTCCCCCGTACTG
ACTTCTCCTATAAGCGCTTCTCTTCGCATAGTCACGTAGCTCCCACCCACCCCTCTTCCTGTGTCTCAGCAAGT
TTTATACTCTAATATTTATATGGCTTTTTTTCTTCGACAAAAAATAATAAAACGTTTCTTCTGAAAAGCTG

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FIGURE 1739

MANRLQRGDRSRLLLLLCIFLGTLRGFRARQIRYSVPEETEKGSFVGNISKDLGLEPRELAKRGVRIVSRGKTQL
FAVNPRSGSLITAGRIDREELCETVSSCFLNMELLVEDTLKIYGVEVEIIDINDNAPSFQEDEVEIKVSEHAIPG
ARFALPNARDEPDVGVNSLQSYQLSPNNYFSLQLRGRTDGAKNPFLVLEGLDREKEAAHLLLLLTALDGGDPPIRKG
AVPIRVVVLVDNDHIPMFTQSVYRVSVPENISSGTRVLMVNATDPDEGINGEVMYSFRNMESKASEIFQLDSQTG
EVQVRGSLDFEKYRFYEMEIQQGDGGGLFTTTTMLITVVDVNDNAPEITITSSINSILENSPPGTIVIALLNVDQDQ
DSGENGVSCFIPNHLFPKLEKTYGNYYKLITSRVLDRELVQSYNITLTATDQGSPPLSAETHVWLVNADDNDNP
PVFPHSSYSAYIPENNPRGASIFSVTALDPDSKQNALVTYSLTDDTVQGVPLSSYVSINSNTGVLYALQSFDEYEQ
FRDLELRVIARDSGDPPLSSNVSLSLFVLDQNDNAPEILYPALPTDGSTGVELAPRSAEPGYLVTKVAVDKDSG
QNAWLSYRLLKASEPGLFAVGHEHTGEVRTARALLDRDALKQSLVVAVQDHGQPPLSATVTLTVAVADSIPEVLAD
LGSLESLANSETSDLSLYLVVAVAAVSCIFLVFVIVLLALRLWRWHKSRLQASEGGLAGMPTSHFVGVDGVQAF
LQTSHEVSLIADSQKSHLIFPQPNYGDTLISQESCEKSEPLLIAEDSAIILGKCDPTSNQQAPPNTDWRFSQAQ
RPGTSGSQNGDDTGTWPNNQFDTEMLQAMILASASEAADGSSTLGGGAGTMGLSARYGPQFTLQHVDPDYRQNVYI
PGSNATLTNAAGKRDGKAPAGNGNKKKSGKKEKK

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FIGURE 1740A

AAGGGGGTGGAGGTTTGGCCCTAAAGCTTCAGGACACCAAAGAAATTCAGTCGAACAGCCCACCAGTTCTCTCCA
TAGGGACCTGGGTCCCGTGAATGCTGGTTATCTCACACCCTGAGGAATAAAGATTGGAATCCGCACTGGATGCTG
GAAGTTGACTCGGAGAAAATTGCGACAGGAGGGAAATGGCGGCTCTGCAAAAGTTGCCACACTGCAGAAAGCTGG
TCCTGCTGTGCTTCCTTTTGGCGACCCTGTGGGAGGCCAGGGCCGGGCAGATTTCGTATTCTGTGCGGGAAGAGA
TCGACAGAGGCTCCTTCGTAGGCAACATCGCCAAGGACTTGGGTTTGGAGCCCCCTGGCACTGGCAGAGCAGGGAG
TCCGCATCGTCTCCAGAGGTAGGTCCCAGCTCTTTGCTCTGAACCCGCGAAGCGGCAGCTTGGTCACTGCGAACA
GGATAGACCGGGAGGAGCTCTGCGCTCAGAGCGCACCCCTGTCTGTTGAATTTAACATTCTGCTGGAGGATAAAT
TGACTATTTATTTCAGTAGAGGTGGAAATAACAGATATTAACGATAATGCCCTCGCTTTGGAGTAGAGGAACTGG
AGCTAAAAATCAGTGAAACCACTACGCCAGGATTCCGGATTCTCTTAAGAATGCGCATGATGCAGACGTAGGTG
AGAACGCCCTTCAGAAGTACGCACTCAACCCAAATGACCACTTCTCCCTGGACGTGCGAAGGGGAGCTGATGGGA
ACAAGTACCCAGAAGTGGTGCTGGAGCGCTCTCTGGACCGCGAGGAAGAGGCTGTTACCACCTCGTTCTCGTGG
CTTCTGATGGGGGTGACCCAGTGCTATCTGGCACCTCCCGCATCTGCGTGAAGGTCTGGATGCGAACGACAATG
CGCCTGTTTTTACACAGCCCGAGTACCGCATAAGCATTCCGGAGAATACGCTCGTGGGCACCCGGATACTCACGG
TGACCGCCACTGACGCAGATGAGGGCTACTACGCTCAAGTGGTATATTTTCTAGAGAAAAGCCCTGGAGAAACCT
CAGAGGTATTTGAGCTTAAGTCAACATCTGGGAACTGACAATCATAAAAGATCTAGATTATGAGGATGCTACAT
TCCATGAAATTGATATTGAAGCTCAGGATGGTCCGGGCTTCTAACCAGAGCGAAGGTTATCGTCACGGTCTCTGG
ATGTGAATGACAATGCCCCAGAATTTTACATGACATCTGCTACTAGCTCAGTTTCTGAAGACTCTCTTCCAGGAA
CCATAATTGGGCTTTTAAATGTACATGATAGAGACTCTGGGCAGAACGCATTACCACCTGTTCACTCCCCGAGG
ATCTTCCTTTTAAAGTTAGAAAAGTCAGTAGACAATTACTACCGACTGGTTACAACCAGAGCCCTTGACAGGGAAC
AGTTTTCTTTTACAACATCACTCTAACCGCTAAAGATGGAGGGAACCCCTCCCTGTCCACGGATGCTCACATTT
TGCTCCAGGTGGCAGACATCAACGACAACGCACCCGCTTCTCCCGCACATCCTACTCCACCTACATTCCCGAAA
ACAACCCAGAGGAGCCTCTGTCTTCTCAGTGACGGCCATGACCCGACAGCAACGACAATGCTCATGTAACCTT
ACTCTTTTCGCGGAGGACACTGTTCAGGGGGCACCCCTTATCCTCTTACATCTCTATCAACTCCGACACTGGAGTAC
TCTATGCACTGCGCTCCTTTGATTATGAGCAGTTGCGAGACTTGCAAGTGTGGGTGATAGCGCGGGACAGCGGGA
ACCCTCCACTCAGTAGCAATGTATCATTAAAGCCTGTTTCGTGCTGGACCAGAACGACAACGCGCCCGAGATCCTGT
ACCCTGCCTTCCCCACAGACGGTTCCTACTGGCGTGGAGCTGGCGCCCCGCTCCGAGAGCCCGGCTACCTGGTGA
CCAAGGTGGTGGCGGTGGACAGAGACTCGGGCCAGAAGCCTGGCTGTCTTACCACCTGCTCAAGGCCAGCGAGC
CGGGACTCTTCTCGGTGGGTCTGCACACGGGCGAGGTGCGCACGGCGCGAGCCCTGCTGGACAGAGACGCGCTCA
AGCAGAGCCTCGTGGTGGCCATCCAGGACCACGGCCAGCCCCCTCTCTCCGCCACTGTACGCTCACCGTGGCCG
TGGCCGACAGGATCCCCGACATCCTGGCCGACCTGGGCAGCCTCGAGCCCTCCGCCATAACCAACGATTTCGGACC
TCACTCTGTACCTGGTGGTGGCGGTGGCCGCGGTCTCCTGCGTCTTCTGGCCTTCGTCATCGTGTGCTGGCGC
ACAGGCTGCGGCGCTGGCACAAGTCACGCCTGCTGCAGGCTTCAGGAGGCAGCTTGACAGGCATGCAGAGCTCGC
ACTTTGTGGGCGTGGACGGGGTTCGGGCTTTCTGTCAGACCTATTCCCACGAGGTCTCCCTCACTGCGGACTCGC
GGAAGAGCCACCTGATTTTCCCCAGCCCAACTATGCGGACACGCTCATCAGCCAGGAGAGCTGTGAGAAAAAGG
ATTTTTTATCAGCGCCTCAATCTCTACTCGAAGAAGAAAGAGAAGAAACGTTTTTCTCAGCAAGCCCCGCCAACA
CGGACTGGCGTTTCTCTCAGGCCAGAGACCCGGCACCAGCGGCTCCCAAAATGGCGATGACACCGGCACCTGGC
CCAACAACAGTTTGACACAGAGATGCTGCAAGCCATGATCTTGGCGTCCGCCAGTGAAGCTGCTGATGGGAGCT
CCACCCTGGGAGGGGGTGGCCGACCATGGGATTGAGCGCCGCTACGGACCCCAAGTTACCCTGCAGCACGTGC
CCGACTACCGCCAGAATGTCTACATCCCAGGCAGCAATGCCACACTGACCAACGCAGCTGGCAAGCGGGATGGCA
AGGCCCCAGCAGGTGGCAATGGCAACAAGAAGTCCGGCAAGAAGGAGAAGAAGTAACATGGAGGCCAGGCCA
AGAGCCACAGGGCGGCTCTCCCCAACCAGCCCAGCTTCTCCTTACCTGCACCCAGGCCTCAGAGTTTCAGGGCT
AACCCCCAGAATACTGGTAGGGGCCAAGGCCATGCTCCCTTGGGAAACAGAAACAAGTGCCAGTCAGCACCTA
CCCCTTCCCCCCCCAGGGGGTTGAATATGCAAAAGCAGTTCCGCTGGGAACCCCATCCAATCAACTGCTGTACCC
ATGGGGGTAGTGGGGTTACTGTAGACACCAAGAACCATTGGCCACACCCCGTTTAGTTACAGCTGAACTCCTCCA
TCTTCCAAATCAATCAGGCCCATCCATCCCATGCTCCCTCCTCCCCACCCCACTCCAACAGTTCTCTTTCCCG
AGTAAGGTGGTTGGGGTGTGAGTACCAAGTAACCTACAAGCCTCCTAGTTCTGAAAAGTTGGAAGGGCATCAT
GACCTCTTGGCCTCTCCTTTGATTCTCAATCTTCCCCCAAAGCATGGTTTGGTGCCAGCCCTTCACCTCCTTCC
AGAGCCCAAGATCAATGCTCAAGTTTTGGAGGACATGATCACCATCCCCATGGTACTGATGCTTGTGGATTTAG

FIGURE 1740B

G G A G G G C A T T T T G C T A C C A A G C C T C T T C C C A A C G C C C T G G G G A C C A G T C T T C T G T T T T G T T T T T C A T T G T T T G A C
G T T T C C A C T G C A T G C C T T G A C T T C C C C C A C C T C C T C C T C A A A C A A G A G A C T C C A C T G C A T G T T C C A A G A C A G T A T
G G G G T G G T A A G A T A A G G A A G G G A A G T G T G T G G A T G T G G A T G G T G G G G C A T G G A C A A A G C T T G A C A C A T C A A G T T
A T C A A G G C C T T G G A G G A G G C T C T G T A T G T C C T C A G G G G A C T G A C A A C A T C C T C C A G A T T C C A G C C A T A A A C C A A I
A A C T A G G C T G G A C C C T T C C C A C T A C A T A A T A G G G C T C A G C C C A G G C A G C C A G C T T T G G G C T G A G C T A A C A G G A C C
A A T G G A T T A A A C T G G C A T T T C A G T C C A A G G A A G C T C G A A G C A G G T T T A G G A C C A G G T C C C C T T G A G A G G T C A G A G
G G G C C T C T G T G G G T G C T G G G T A C T C C A G A G G T G C C A C T G G T G G A A G G G T C A G C G G A G C C C C A G C A G G A A G G G T G G
G C C A G C C A G G C C A T T C T T A G T C C C T G G G T T G G G G A G G C A G G G A G C T A G G G C A G G G A C C A A T G A A C A G A A A G T C T
C A G C C C A G G A T G G G G C T T C T T C A A C A G G G C C C C T G C C C T C C T G A A G C C T C A G T C C T T C A C C T T G C C A G G T G C C G T
T T C T C T T C C G T G A A G G C C A C T G C C C A G G T C C C C A G T G C G C C C C C T A G T G G C C A T A G C C T G G T T A A A G T T C C C C A G
T G C C T C C T T G T G C A T A G A C C T T C T T C T C C C A C C C C C T T C T G C C C C T G G G T C C C C G G C C A T C C A G C G G G G C T G C C A
G A G A A C C C C A G A C C T G C C C T T A C A G T A G T G T A G C G C C C C C T C C C T C T T T C G G C T G G T G T A G A A T A G C C A G T A G T G
T A G T G C G G T G T G C T T T T A C G T G A T G G C G G G T G G G C A G C G G G C G G C G G G C T C C G C G C A G C C G T C T G T C C T T G A T C T
G C C C G C G G C G G C C C G T G T T G T G T T T T G T G C T G T G T C C A C G C G T A A G G C G A C C C C C T C C C C C G T A C T G A C T T C T C
C T A T A A G C G C T T C T C T T C G C A T A G T C A C G T A G C T C C C A C C C A C C C T C T T C C T G T G T C T C A C G C A A G T T T T A T A C
T C T A A T A T T T A T A T G G C T T T T T T C T T C G A C A A A A A A T A A T A A A C G T T T C T C T G A A A A G C T G

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FIGURE 1741

MAALQKLPHCRKLVLLCFLLATLWEARAGQIRYSVREEIDRGSFVGNI AKDLGLEPLALAEQGV RIVSRGRSOLF
ALNPRSGSLVTANRIDREELCAQSAPCLLNFNILLEDKLTIIYSVEVEITDINDNAPRFGVEEELKISSETTTPGF
RIPLKNAHDADVGENALQKYALNPNDHFSLDVRRGADGNKYPELV LERSLDREEEAVHHLVLVASDGGDPVLSGT
SRICVKVLDANDNAPVFTQPEYRISIPENTLVGTRILTVTATDADEGYA QVVYFLEKSPGETSEVFELKSTSGE
LTI IKDL DYEDATFHEIDIEAQDGPGLLTRAKVIVTVLDVNDNAPEFYMTSATSSVSEDSLPGTIIIGLFNVHDRD
SGQNAFTTCSLPEDLPFKLEKSVDNYYRLVTTRALDREQFSFY NITLTAKDGGNPSLSTDAHILLQVADINDNAP
AFSRTSYSTYIPENNPRGASVFSVTAHDPDSNDNAHV TYSFAEDTVQGAPLSSYISINSDTGVLYALRSFDYEQL
RDLQVWVIARDSGNPPLSSNVSLSLFVLDQNDNAPEILYPAFP TDGSTGVELAPRSAEPGYLVTKVAVDRDSGQ
NAWLSYHLLKASEPGLFSVGLHTGEVRTARALLDRDALKQSLVVAIQDHGQPPLSATVTTLTVAVADRIPDILADL
GSLEPSAIPNDSDLTLYLVVAVAAVSCVFLAFVIVLLAHLRRWHKSRL LQASGGSLTGMQSSHFGVDGVR AFL
QTYSHEVSLTADSRKSHLIFPQPNYADTLISQESCEKKDFLSAPQSLLEEEEREETF SQQAPPNTDWRFSQAQRPG
TSGSQNGDDTGTWPNNQFDTEMLQAMILASASEAADGSSTLGGGAGTMGLSARYGPQFTLQHVPDYRQNVYIPGS
NATLTNAAGKRDGKAPAGGNGNKKKSGKKEKK

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FIGURE 1742A

ATGACCAATTGCCTGAGTTTCCGAAATGGCAGAGGACTGGCCCTGCTGTGCGCGCTCCTGGGGACGCTGTGCGAA
ACAGGATCCGGTCAGATCCGCTACTCGGTGTCTGAGGAGCTAGATAAAGGTTCTTTCGTGGGCAACATCGCTAAC
GACCTGGGGCTAGAGCCCCGGGAGCTGGCGGAGCGCGGAGTCCGCATCGTCTCCAGAGGTAGGACGCAGCTTTTC
TCTCTGAATCCGCAAAGCGGCAGCTTGGTCACCGCGGAGAGGATAGACCGGGAGGAGCTCTGCGCTCAGATCCCG
CTGTGTCTGGTAAAAATTAACATTCTGGTTGAGGATAAATTGAAAAATTTTGAAGTAGAAATAGAAATTAAAGAT
ATTAATGATAATGCTCCTAATTTCCCAACAGAGGAATTGGAAATAAAAAATTGGTGAACATAACGGTTCTTGGAAACC
CGATTCCAATTAAAACTGCTTTTGAACCCAGATGTAGGCATTAACCTCCCTGCAGAACTACAAGCTTAGCCCCAAT
GACTACTTCTCTCTGGCTGTGAATAGCGTCTCTGAGGGGGCCAAAGTATCCAGAGCTGGTGTGGAGCGGGCCCTG
GACCGTGAGAAAAAAGAAATTCACCAGCTTGTCTGGTTGCCCTCTGATGGTGGCGACCCTGTCCACTCTGGCAAC
TTGCACATCCAAGTGATAGTCTGGATGCAAATGACAACCCACCAATGTTTACTCAGCCTGAGTACCGTGTGAGT
GTTTGGGAGAACGTGCCTGTGGGTACCCGGCTGCTCACGGTGAATGCCACTGACCCTGACGAGGGATTCAATGCT
CAAGTGTCTTATATTCTAGATAAAATGCCTGGGAAAAATCGCTGAGATTTTCCATCTTAACCTCAGTGAGTGGAGAA
GTATCAATATTAAAAAGTCTAGATTATGAGGATGCCATGTTCTATGAAATTAAATTGAAGCACAGGATGGACCA
GGTCTTCTTTCAAGAGCCAAGATTCTAGTCACGGTTCTGGATGTGAATGACAATGCTCCAGAAATTACAATCAG
TCTCTCACAAGCTCAGTCCCAGAAGAGGGCACCGTTGGAAGAGAAATTGCTCTTATCGACGTGCATGACCGAGAT
TCTGGGCAGAAATGGGCAGGTTGAAGTTTTTGTCTGGGAAATCTGCCATTTAAGTTAGAAAAATCAATAGATCAA
TATTACCGCTTAGTGACGGCCACATCCCTGGACCGCGAACAATAATCAGAATATAACATTAGTCTGAGAGCCTCA
GATGGGGGAAGCCCGCCACTGTCCACAGAACTCACATCACCTGCATGTGATTGACATCAATGACAACCCACCC
ACCTTCCCTCATTTATCTACTCCGCCTACATTCCAGAAAACAACCCAGAGGAGCCTCCATCTTCTCAGTGACA
GCCCAGGACCCAGATAGCAACAACAACGCCCCGATCACTTATGCATTGACCGAGGACACTCTCCAGGGGGCGCCC
CTGTCTCTCTTCGTCTCTATCAACTCCAACACTGGCGTCTCTATACGCGCTGAGATCCTTCGACTACGAGCAATTT
AGAGACTTAAAGCTACTGGTGACAGCCAGCGACAGCGGGAACCTCCACTCAGCAGCAACGTGTGCTGAACCTG
TTCGTGCTGGACCAGAACGACAACGCGCCCGAGATCCTGTACCCCGCCCTCCCCACAGACGGTTCCACTGGCGTG
GAGCTGGCGCCTCGCTCCGCAGAGCCCGCTACCTGGTGACCAAGGTGGTGGCGGTGGACAGAGACTCGGGCCAG
AACGCCTGGCTGTCTTACCGCTGCTCAAGGCCAGCGAGCCGGGACTCTTCTCGGTGGGTCTGCACACGGGCGAG
GTGCGCACGGCGCGAGCCCTGCTGGACAGAGACGCGCTCAAGCAGAGCCTCGTGGTGGCCGTCCAGGACCACGGC
CAGCCCCCTCTCTCCGCCACTGTACGCTCACCGTGGCCGTGGCCGACAGGATCCCCGACATCCTGGCCGACCTG
GGCAGCCTCGAGCCCTCCGCCAAACCCAACGATTTCGGACCTCACTCTGTACCTGGTGGTGGCGGTGGCCGCGGTC
TCCTGCGTCTTCTGGCCTTCGTATCTGTGCTGCTGGCGCTCAGGCTGCGGCGCTGGCACAAGTCACGCCTGCTG
CAGGCTTCGGGAGGCGGCTTGGCGAGTACGCCCGCTCGCACTTTGTGGGCGCGGACGGGGTTCCGGGCTTTCCTG
CAGACCTATTCCCACGAGGTCTCCCTCACTGCGGACTCGCGGAAGAGCCACCTGATTTTCCCCCAGCCCAACTAT
GCGGACACGCTCATCAGCCAGGAGAGCTGTGAGAAAAGCGAGCCTCTTCTGATAACTCAGGATTTACTTGAAATG
AAAGGAGATTCCAACCTACTTCAGCAAGCCCCGCCAACACGGACTGGCGTTTCTCTCAGGCCCAGAGACCCGGC
ACCAGCGGCTCCCAAAATGGCGATGACACCGGCACCTGGCCCAACAACAGTTTGACACAGAGATGCTGCAAGCC
ATGATCTTGGCGTCCGCCAGTGAAGCTGCTGATGGGAGCTCCACCCTGGGAGGGGTGCCGGCACCATGGGATTG
AGCGCCCGCTACGGACCCAGTTTACCCTGCAGCACGTGCCCAGTACCGCCAGAATGTCTACATCCCAGGCAGC
AATGCCACACTGACCAACGCAGCTGGCAAGCGGGATGGCAAGGCCCCAGCAGGTGGCAATGGCAACAAGAAGAAG
TCGGGCAAGAAGGAGAAGAAGTAACATGGAGGCCAGGCCAAGAGCCACAGGGCGGCCTCTCCCCAACAGCCAG
CTTCTCCTTACCTGCACCCAGGCCTCAGAGTTTACGGGCTAACCCCCAGAATACTGGTAGGGGCCAAGGCCATGC
TCCCTTGGGAAACAGAAAACAAGTGCCAGTCAGCACCTACCCCTTCCCCCCCAGGGGGTTGAATATGCAAAAGC
AGTTCCGCTGGGAACCCCCATCCAATCAACTGCTGTACCCATGGGGGTAGTGGGGTTACTGTAGACACCAAGAAC
CATTTGCCACACCCCGTTTGTAGTTACAGCTGAACTCCTCCATCTTCCAAATCAATCAGGCCCATCCATCCCATGCC
TCCCTCTCCCCACCCCACTCCAACAGTTCTCTTTCCCGAGTAAGGTGGTTGGGGTGTGAAAGTACCAAGTAAC
CTACAAGCCTCCTAGTTCTGAAAAGTTGGAAGGGCATCATGACCTCTTGGCCTCTCCTTTGATTCTCAATCTTCC
CCCAAAGCATGGTTTGGTGCCAGCCCTTACCTCCTTCCAGAGCCCAAGATCAATGCTCAAGTTTTGGAGGACA
TGATACCATCCCCATGGTACTGATGCTTGTGGATTAGGGAGGGCATTTTGCTACCAAGCCTCTTCCCCAACGC
CTGGGGACAGTCTTCTGTTTGTGTTTTTCATTGTTTGACGTTTCCACTGCATGCCTTGACTTCCCCCACCTCCT
CTCAAACAAGAGACTCCACTGCATGTTCCAAGACAGTATGGGGTGGTAAGATAAGGAAGGAAGTGTGTGGATG

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FIGURE 1742B

TGGATGGTGGGGGCATGGACAAAGCTTGACACATCAAGTTATCAAGGCCTTGGAGGAGGCTCTGTATGTCCTCAG
GGGACTGACAACATCCTCCAGATTCCAGCCATAAACCAATAACTAGGCTGGACCCCTTCCCACTACATAATAGGGC
TCAGCCCAGGCAGCCAGCTTTGGGCTGAGCTAACAGGACCAATGGATTAAACTGGCATTTCAGTCCAAGGAAGCT
CGAAGCAGGTTTAGGACCAGGTCCCCTTGAGAGGTGAGAGGGGCCTCTGTGGGTGCTGGGTACTCCAGAGGTGCC
ACTGGTGGAAGGGTCAGCGGAGCCCCAGCAGGAAGGGTGGGCCAGCCAGGCCATTCTTAGTCCCTGGGTGGGGA
GGCAGGGAGCTAGGGCAGGGACCAATGAACAGAAAGTCTCAGCCCAGGATGGGGCTTCTTCAACAGGGCCCTG
CCCTCCTGAAGCCTCAGTCCTTCACCTTGCCAGGTGCCGTTTCTCTTCCGTGAAGGCCACTGCCAGGTCCCCAG
TGCGCCCCCTAGTGGCCATAGCCTGGTTAAAGTTCCCCAGTGCCTCCTTGTGCATAGACCTTCTTCTCCACCCC
CTTCTGCCCCTGGGTCCCCGGCCATCCAGCGGGGCTGCCAGAGAACCCAGACCTGCCCTTACAGTAGTGTAGCG
CCCCCTCCCTCTTTGGGCTGGTGTAGAATAGCCAGTAGTGTAGTGCAGTGTGCTTTTACGTGATGGCGGGTGGGC
AGCGGGCGGCGGGCTCCGCGCAGCCGTCTGTCCTTGATCTGCCGCGGCGGCGCCGTTGTGTGTTTTGTGCTGTGT
CCACGCGCTAAGGCGACCCCTCCCCGTAAGTCTCTCTATAAGCGCTTCTCTTCGCATAGTCACGTAGCTC
CCACCCACCCCTCTTCTGTGTCTCACGCAAGTTTATACTCTAATATTTATATGGCTTTTTTCTTCGACAAAA
AAATAATAAAACGTTTCTTCTGAAAAGCTG

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FIGURE 1743

MTNCLSFRNGRGLALLCALLGTLCTGSGQIRYSVSEELDKGSFVGNIANDLGLEPRELAERGVRIVSRGRTQLF
SLNPQSGSLVTAERIDREELCAQIPLCLVKINILVEDKLIKIFEVEIEIKDINDNAPNFPTEELEIKIGELTVPGT
RFPIKTAFDPDVGINSLQNYKLSNDYFSLAVNSVSEGAKYPELVLERALDREKKEIHQLVLVASDGGDPVHSGN
LHIQVIVLDANDNPPMFTQPEYRVSVWENVPVGTIRLLTVNATDPDEGFNAQVSYILDKMPGKIAEIFHLNSVSGE
VSILKSLDYEDAMFYEIKIEAQDGPGLLSRAKILVTVLDVNDNAPEITITSLTSSVPEEGTVGREIALIDVHNRD
SGQNGQVEVFVLGNLPFKLEKSIDQYYRLVTATSLDREQISEYNISLRASDGGSPPLSTETHITLHVIDINDNPP
TFPHLSYSAYIPENNPRGASIFSVTAQDPDSNNNARITYALTEDTLQGAPLSSFSINSNTGVLYALRSFDYEQF
RDLKLLVTASDSGNPPLSSNVSLNLFVLDQNDNAPEILYPALPTDGSTGVELAPRSAEPGYLVTKVAVDRDSGQ
NAWLSYRLKASEPGLFSVGLHTGEVRTARALLDRDALKQSLVVAVQDHGQPPLSATVTTLTVAVADRIPDILADL
GSLEPSAKPNDSDLTLYLVVAVAAVSCVFLAFVIVLLALRLRRWHKSRLQASGGGLASTPGSHFVGADGVRAFL
QTYSHVSLTADSRKSHLIFPQPNYADTLISQESCEKSEPLITQDLLEMKGDSNLLQQAPPNTDWRFSQAQRPG
TSGSQNGDDTGTWPNNQFDTEMLQAMILASASEAADGSSTLGGGAGTMGLSARYGPFQFTLQHVPDYRQNVYIPGS
NATLTNAAGKRDGKAPAGNGNKKKSGKKEKK

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FIGURE 1744A

ATGGCGGCGCCTCCTGCTCGCCAGACCACACCCGGCTGCTCCAGATCTGCCTTCTCCTGGGGGTCTGTTGGTGGAA
ATCAGGGCCGAACAGATTCTCTACTCGGTGTTTGGAGAGCAGGAAGAAGGCTCAGTGGTGGGCAACATCGCCAAG
GACCTGGGGTTGGCGCCCCGGGAGCTGGCGGAGCGCGGAGTCCGCATCGTCTCCAGAGGTAGGACGCAGCTTTTC
GCCCTGAACCCGCGCAGCGGCACCTTGGTCACCGCGGGTAGGATAGACAGGGAGGAGCTCTGCGACAGATCTCCA
AACTGTGTGACAAACCTGGAGATTCTTCTAGAAGATACAGTGAAGATTTTGCGGGTAGAGGTGGAAATAATCGAT
GTTAATGATAACCCACCCAGTTTTTGGGACAGAACAGAGGGAAATAAAAGTTGCTGAAAATGAAAATCCTGGGGCA
AGATTTCCCTCTTCCCTGAAGCTTTTGATCCGGATGTAGGTGTAAACTCCCTGCAGGGTTACCAGCTCAACTCAAAC
GGTTACTTTTCCCTGGACGTGCAAAGTGGGGCCGATGGGATTAAGTACCCAGAGCTGGTGCTGGAACGCGCTCTA
GATCGCGAGGAAGAGGCGGTTACCACCTCGTTCTCACGGCCTTCGATGGAGGTGACCCGGTTTCGCTCTGGCACT
GCCAGGATTCTCATAATACTTGTGGATACCAACGATAATGCTCCCGTGTTCACTCAGCCCCAGTACCACGTAAGT
GTTTCGTGAGAACGTTCCCTGTAGGCACTCGGCTACTCACCGTAAAGCCACTGATCCAGATGAAGGAGCCAATGGA
GACGTGACGTAATTCTTTCCGGAAAGTAAGAGACAAAATATCACAGCTATTTCAAGTTGAATTCTCTGAGTGGGGAT
ATAACAATATTGGGGGGTCTAGATTATGAGGACTCTGGATTCTATGACATAGATGTAGAAGCCCATGATGGGCCCT
GGTCTCCGAGCTAGAAGCAAGGTACTGGTGACAGTTCTGGATGAAAATGACAACGCACCAGAAGTCACAGTTACA
TCTCTCACCAGCTCAGTCCAGGAATCTTCTTCCCCGGGTACAGTAATTGCACTTTTCAACGTGCATGACAGTGAC
TCAGGAGGAAATGGCCTAGTCACATGTTCTATTCCAGATAATCTGCCATTACACTTGAAAAGACCTATGGAAAT
TATTATCGGTTGTTGACACACAGAACACTGGACAGGGAAGAAGTCTCAGAATATAACATCACTGTAAGTGGCACT
GACCAGGGAACCTCCACTGTCTACAGAACTCATATTTCACTGCAAGTGATGGACATCAATGACAACCCACCC
ACTTTCCTCATGCTTCCCTACTCTGCTTACATTCTGAAAACAACCCAGAGGAGCCTCCATCTTATCTATGACT
GCTCAAGACCCTGACAGTGGTGACAATGCCCCGAATCACTTACTCCCTGGCCGAAGACACCTTCCAGGGTGCACCT
CTGTCTCTATGTCTCCATCAACTCCAATACAGGGATCCTATATGCTCTTTGCTCCTTCGACTATGAGCAGTTT
AGAGACCTGCAGCTGCTGATGACAGCCAGTGACAGTGGAGACCCTCCACTCAGCAGCAATGTGTCACTGAGCCTC
TTTGTGCTGGACCAGAACGACAATGTCCCTGAGATCCTGTACCCACCTTCCCTACTGATGGCTCCACTGGTGTG
GAGCTGGCACCCCGCTCCGCAGATTCCGGCTACCTGGTGACCAAAGTGGTGGCAGTGGACAGAGACTCAGGTCAG
AATGCCTGGCTGTCTACAGCCTACTCAAGTCCAGCGAGCCGGGACTATTTGCAGTGGGGCTGCACACAGGCGAG
GTGCGCACCGCACGGGCCCTGCTGGACAGAGACGCGCTCAAGCAGAGGCTTGTAGTGGTTCGTCAGGACCATGGC
CAGCCCCCTCTCTCGGCCACCGTCACACTCACTGTGGCTGTGGCCGACAGCATCCCAGATGTCTGGCTGACTTG
GGCAGCCTCAAGCCTTACGACAGCCAGACGACTCGGGCCTCACACTCTATCTCGTGGTGGCAGTGGCCGCTGTC
TCCTGCGTCTTCTGGCTTTTGTACGGTGCTGCTAGCACTCAAGCTGAGACGCTGGCACAAGTCACGCCTGCTT
CACGCTGAAGGCAGCAGGTTGGCAGGTGTGCTGCTCGCACTTTGTGGGCGTGGACGGGGTTTCGGGCTTTCTCTG
CAGACCTATTCCCACGAGGTCTCCCTCACCGCGGACTCGCGGAAGAGTCACCTGATCTTCTCCCAACCCAGCTAT
GCAGACACGCTCATCAGCCGGGAGAGTTGTGAGAAAAGCGAGCCTCTTCTGATAACTCAGGATTTACTTGAAACA
AAAGGAGACCCTAATCTTCAGCAAGCCCCGCCAACACGGACTGGCGTTTCTCTCAGGCCCAGAGACCCGGCACC
AGCGGCTCCCAAAATGGCGATGACACCGGCACCTGGCCCCAACACCAGTTTGACACAGAGATGCTGCAAGCCATG
ATCTTGGCGTCCGCCAGTGAAGCTGCTGATGGGAGCTCCACCCTGGGAGGGGGTGCCGGCACCATGGGATTGAGC
GCCCCGTACGGACCCAGTTACCCCTGCAGCACGTGCCCCGACTACCGCCAGAATGTCTACATCCCAGGCAGCAAT
GCCACACTGACCAACGCAGCTGGCAAGCGGGATGGCAAGGCCCCAGCAGGTGGCAATGGCAACAAGAAGAAGTCG
GGCAAGAAGGAGAAGAAGTAACATGGAGGCCAGGCCAAGAGCCACAGGGCGGCCTCTCCCCAACCCAGCCAGCTT
CTCCTTACCTGCACCCAGGCCCTCAGAGTTTACAGGGCTAACCCCCAGAATACTGGTAGGGGCCAAGGCCATGCTCC
CCTTGGGAAACAGAAACAAGTGGCCAGTCAGCACCTACCCCTTCCCCCCCAGGGGGTTGAATATGCAAAAGCAGT
TCCGCTGGGAACCCCCATCCAATCAACTGCTGTACCCATGGGGGTAGTGGGGTTACTGTAGACACCAAGAACCAT
TTGCCACACCCCGTTTAGTTACAGCTGAACCTCCTCCATCTTCCAAATCAATCAGGCCCATCCATCCCATGCCTCC
CTCCTCCCCACCCACTCCAACAGTTCTCTTCCCGAGTAAGGTGGTTGGGGTGTGAAAGTACCAAGTAACCTA
CAAGCCTCCTAGTTCTGAAAAGTTGGAAGGGCATCATGACCTCTTGGCCTCTCCTTTGATTCTCAATCTTCCCC
AAAGCATGGTTTGGTGCCAGCCCCCTCACCTCCTTCCAGAGCCCAAGATCAATGCTCAAGTTTGGAGGACATGA
TCACCATCCCCATGGTACTGATGCTTGCTGGATTTAGGGAGGGCATTGTGCTACCAAGCCTCTTCCCAACGCCCT
GGGGACAGTCTTCTGTTTTGTTTTTCAATGTTTGACGTTTCCACTGCATGCCTTGACTTCCCCACCTCCTCCT
CAACAAGAGACTCCACTGCATGTTCCAAGACAGTATGGGGTGGTAAGATAAGGAAGGGAAGTGTGTGGATGTGG

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FIGURE 1744B

ATGGTGGGGGCATGGACAAAGCTTGACACATCAAGTTATCAAGGCCTTGGAGGAGGCTCTGTATGTCCTCAGGGG
ACTGACAACATCCTCCAGATTCCAGCCATAAACCAATAACTAGGCTGGACCCTTCCCCTACATAATAGGGCTCA
GCCAGGCAGCCAGCTTTGGGCTGAGCTAACAGGACCAATGGATTAACTGGCATTTCAGTCCAAGGAAGCTCGA
AGCAGGTTTAGGACCAGGTCCCCCTTGAGAGGTGAGAGGGGCTCTGTGGGTGCTGGGTACTCCAGAGGTGCCACT
GGTGGAAGGGTCAGCGGAGCCCCAGCAGGAAGGGTGGGCCAGCCAGGCCATTCTTAGTCCCTGGGTGGGGAGGC
AGGGAGCTAGGGCAGGGACCAAATGAACAGAAAGTCTCAGCCCAGGATGGGGCTTCTTCAACAGGGCCCCCTGCCC
TCCTGAAGCCTCAGTCCTTCACCTTGCCAGGTGCCGTTTCTCTTCCGTGAAGGCCACTGCCCAGGTCCCCAGTGC
GCCCCCTAGTGGCCATAGCCTGGTTAAAGTTCCCCAGTGCCTCCTTGTGCATAGACCTTCTTCTCCACCCCCTT
CTGCCCCCTGGGTCCCCGGCCATCCAGCGGGGTGCCAGAGAACCCCAGACCTGCCCTTACAGTAGTGTAGCGCCC
CCTCCCTCTTTTCGGCTGGTGTAGAAATAGCCAGTAGTGTAGTGCGGTGTGCTTTTACGTGATGGCGGGTGGGCAGC
GGGCGGCGGGCTCCGCGCAGCCGTCTGTCTTGATCTGCCCGCGGCGGCCGTGTTGTGTTTTGTGCTGTGTCCA
CGCGCTAAGGCGACCCCCTCCCCGTACTGACTTCTCCTATAAGCGTTCTCTTCGCATAGTCACGTAGCTCCCA
CCCCACCCTCTTCCTGTGTCTCACGCAAGTTTTATACTCTAATATTTATATGGCTTTTTTTCTTCGACAAAAAA
TAATAAAACGTTTCTTCTGAAAAGCTG

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FIGURE 1745

MAAPPARPDHTRLLQICLLLGVLVEIRAEQILYSVFEEQEEGSVVGNIAKDLGLAPRELAERGVRIVSRGRTQLF
ALNPRSGTLVTAGRIDREELCDRSPNCVTNLEILLED TVKILRVEVEIIDVNDNPPSFGTEQREIKVAENENPGA
RFPLPEAFDPDVGVNLSLQGYQLNSNGYFSLDVQSGADGIKYPELVLERALDREEEAVHHLVLTAFDGGDPVRS
GTARILIIILVD TNDNAPVFTQPEYHVS VRENV PVGTRLLTVKATDPDEGANGDVTYSFRKVRDKISQLFQLNSLSGD
ITILGGLDYEDSGFYDIDVEAHDGPGLRARSKVLVTVL DENDNAPEVTVTSLTSSVQESSSPGTVIALFNVHDS
SGGNGLVTCSIPDNL PFTLEKTYGNYRLLTHRTL DREEVSEYNITVTATDQGT PPLSTETHISLQVMDINDNPP
TFPHASYSAYIPENNPRGASILSMTAQDPD SGDNARITYSLAEDTFQGAPLSSYVSINSNTGILYALCSFDYEQF
RDLQLLMTASDSGDPPLSSNVLSL FVLDQNDNVPEILYPTFPTDGSTGVELAPRSADSGYLVTKVVAVDRDSGQ
NAWLSYSLLKSSEPGLFAVGLHTGEVRTARALLDRDALKQRLVVVVQDHGQPPLSATVTLTVAVADSIPDVLADL
GSLKPSADPDDSGLTLYLVVAVAAVSCVFLAFVTVLLALKLRRWHKSRLHAEGSRLAGVPASHFVGVDGVRAFL
QTY SHEVSLTADSRKSHLIFSQPSYADTLISRESCEKSEPLLITQDLLET KGDPNLQQAPPNTDWRFSQAQRPGT
SGSQNGDDTGTWPNNQFDTEMLQAMILASASEAADGSSTLGGGAGTMGLSARYGPQFTLQHVDPDYRQNVYIPGSN
ATLTNAAGKRDGKAPAGGNGNKKKSGKKEKK

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FIGURE 1746A

ATGGCGAGTCCACCTAGGGGCTGGGGCTGCGGAGAGCTGCTGCTGCCCTTCATGCTCCTGGGGACGCTGTGCGAG
CCAGGATCCGGGCAGATCCGCTACTCGATGCCGGAGGAGCTGGACAAAGGCTCCTTCGTCGGCAACATAGCCAAG
GACCTTGGGCTGGAGCCCCAGGAGCTGGCGGAGCGCGGAGTCCGCATCGTCTCCAGAGGTAGGACGCAGCTTTTT
GCCCTGAACCCGCGAAGCGGCAGCTTGGTCACCGCGGGCAGGATAGACCGGGAGGAGCTCTGCGCTCAGAGCCCA
CTGTGTGTGGTGAACTTTAACATCTTGGTTGAGAACAAAATGAAAATTTATGGAGTAGAAGTAGAAATAATCGAT
ATTAATGATAACTTCCCCGCTTTCGGGATGAAGAGTTAAAGTAAAGTTAATGAAAATGCGGCTGCAGGGACA
CGGTTAGTGCTTCCCTTCGCGCGGGATGCGGATGTGGGTGTGAACCTCTCTCCGGAGTTACCAGCTCAGCTCCAAT
CTGCACCTTCTCTCTGGATGTGTAAGCGGAAGTATGGACAAAAGTATCCGGAGCTGGTGTGGAACAGCCCCTA
GACCGCGAGAAAGAGACTGTTACGACCTCCTCCTCACAGCTTTAGATGGCGGAGACCCGGTACTCTCCGGCACC
ACGCACATCCGTGTTACGGTCTCGACGCAAACGACAATGCGCCCTGTTACCCCCATCCGAGTACAGCGTGAGT
GTTCCAGAGAACATACCTGTGGGCACTCGGCTGCTCATGCTAACCGCCACGGATCCAGATGAGGGGAATAAACGGG
AAATTGACCTACTCTTTTCGCAATGAAGAAGAAAAAATTTTCGGAGACTTTCCAACCTTGATTCCAACCTGGGGGAA
ATCTCAACTCTACAATCACTGGACTATGAAGAATCCAGATTCTACCTCATGGAAGTGGTAGCTCAGGATGGAGGC
GCTCTTGTGGCAGCGCTAAGGTGGTGGTCACAGTACAGGACGTGAATGACAATGCCCCGGAAGTGATCCTCACC
TCTCTGACCAGTTCGATCTCTGAAGACTGTCTTCCCGAACTGTAATCGCGCTGTTTAGCGTACATGATGGTGAT
TCTGGAGAAAATGGTGAGATTGCATGCTCTATTCTAGGAATTTGCCTTTTAAATTGGAGAAGTCAGTTGATAAT
TACTATCACCTATTAACAAGTGGGACCTGGACAGAGAAGAGACTTCAGATTATAATATCACTTTAACCGTCATG
GACCATGGAACCCCGCCCTCTCTACAGAAAGCCACATCCCTTGAAAGTAGCAGACGTTAATGACAACCCACCC
AATTTCCCTCAAGCCTCCTACTCCACCTCTGTACAGAAAACAATCCCAGAGGTGTCTCTATCTTCTCTGTGACA
GCCCATGACCCCGACAGCGGCGACAACGCTCGAGTCACCTACTCCCTGGCTGAAGACACATTTACGGGGGCGCCC
TTGTCTCTCTATGTATCCATTAACCTCTGACACCGGTGTCTGTATGCTCTGAGATCCTTCGACTATGAGCAGTTG
AGAGACCTACAGTTGTGGGTGACAGCCAGCGACAGTGGGAACCTCCACTTAGCAGCAACGTGTCTGCTGAGCCTG
TTTGTGCTGGACCAGAACGACAATACGCCTGAGATCCTGTACCCCGCCCTCCCCACAGACGGTTCCACGGGCGTG
GAGCTGGCGCCTCGCTCCGCAGAACCTGGCTACCTGGTGACCAAGGTGGTAGCGGTGGACAAAGATTACGGCCAG
AACGCCTGGCTGTCTACCGCCTGCTTAAGGCCAGCGAGCCAGGACTCTTTGCGGTTGGGCTGCACACGGGCGAG
GTGCGCACAGCGCGAGCCCTGCTGGACAGAGACGCGCTCAAGCAGAGCCTCGTGGTGGCCGTGCAAGACCATGGC
CAGCCCCCTCTGTGACCCACCTTCACGGTACCGTGTCCGTGGCCGACAGGATCCCTGACATCCTGGCTGACCTA
GGCAGTATCAAGACCCCCATTGACCCTGAGGATCTGGACCTCACACTCTATCTTGTGGTGGCAGTGGCTGCAGTC
TCCTGCGTCTTCTGTCCTTCGTCATCGTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
CAGGCTGAAGGCAGCAGGTTGGCGGGTGTGCCCGCTCGCACTTTGTGGGCGTGGATGGGGTTTCGGGCTTTCTCTG
CAGACCTATTCCCACGAGGTCTCCCTCACCGCGGACTCGAGGAAGAGTCACCTGATCTTTCCCCAGCCCAACTAC
GCAGACACGCTCCTTAGTGAAGAGAGCTGTGAGAAAAGCGAGCCTCTTCTGATGTCTGATAAGGTAGATGCAAAAC
AAAGAAGAACGGCGAGTTACGAAGCCCCGCCAACACGGACTGGCGTTTCTCTCAGGCCCAGAGACCCGGCACC
AGCGGCTCCCAAATGGCGATGACACCGGCACCTGGCCCCAACACCAGTTTGACACAGAGATGCTGCAAGCCATG
ATCTTGGCGTCCGCCAGTGAAGCTGCTGATGGGAGCTCCACCTGGGAGGGGGTGCCGGCACCATGGGATTGAGC
GCCCCTACGGACCCAGTTACCCCTGCAGCACGTGCCCCGACTACCGCCAGAATGTCTACATCCCAGGCAGCAAT
GCCACACTGACCAACGCAGCTGGCAAGCGGGATGGCAAGGCCCCAGCAGGTGGCAATGGCAACAAGAAGAAGTCG
GGCAAGAAGGAGAAGAAGTAAATGAGAGGCCAGGCCAAGAGCCACAGGGCGGCCTCTCCCCAACCCAGCCAGCTT
CTCCTTACCTGCACCCAGGCCTCAGAGTTTACGGGCTAACCCCCAGAATACTGGTAGGGGGCAAGGCCATGCTCC
CCTTGGGAAACAGAAACAAGTGCCAGTCAGCACCTACCCCTTCCCCCCCAGGGGGTTGAATATGCAAAAAGCAGT
TCCGCTGGGAACCCCATCCAATCAACTGCTGTACCCATGGGGGTAGTGGGGTTACTGTAGACACCAAGAACCAT
TTGCCACACCCCGTTTAGTTACAGCTGAACTCCTCCATCTTCCAATCAATCAGGCCCATCCATCCCATGCTCC
CTCCTCCCCACCCACTCCAACAGTTCTCTTTCCCGAGTAAGGTGGTTGGGGTGTGGAAGTACCAAGTAACCTA
CAAGCCTCCTAGTTCTGAAAAGTTGGAAGGGCATCATGACCTCTTGGCCTCTCCTTTGATTCTCAATCTTCCCC
AAAGCATGGTTTGGTGCCAGCCCCCTTACCTCCTTCCAGAGCCCAAGATCAATGCTCAAGTTTTGGAGGACATGA
TCACCATCCCCATGGTACTGATGCTTGGTGGATTTAGGGAGGGCATTGCTACCAAGCCTCTTCCAACGCCCT
GGGGACAGTCTTCTGTTTTGTTTTTCAATTGTTTGACGTTTCCACTGCATGCCTTGACTTCCCCACCTCCTCT
CAAACAAGAGACTCCACTGCATGTTCCAAGACAGTATGGGGTGGTAAGATAAGGAAGGGAAGTGTGTGGATGTGG

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FIGURE 1746B

ATGGTGGGGGCATGGACAAAGCTTGACACATCAAGTTATCAAGGCCTTGGAGGAGGCTCTGTATGTCCTCAGGGG
ACTGACAACATCCTCCAGATTCCAGCCATAAACCAATAACTAGGCTGGACCCTTCCCCTACATAATAGGGCTCA
GCCCAGGCAGCCAGCTTTGGGCTGAGCTAACAGGACCAATGGATTAAACTGGCATTTCAGTCCAAGGAAGCTCGA
AGCAGGTTTTAGGACCAGGTCCCCTTGAGAGGTCAGAGGGGCTCTGTGGGTGCTGGGTACTCCAGAGGTGCCACT
GGTGAAGGGTCAGCGGAGCCCCAGCAGGAAGGGTGGGCCAGCCAGGCCATTCTTAGTCCCTGGGTTGGGGAGGC
AGGGAGCTAGGGCAGGGACCAAATGAACAGAAAGTCTCAGCCCAGGATGGGGCTTCTTCAACAGGGCCCCCTGCCC
TCCTGAAGCCTCAGTCCTTCACCTTGCCAGGTGCCGTTTCTCTTCCGTGAAGGCCACTGCCAGGTCCCCAGTGC
GCCCCCTAGTGGCCATAGCCTGGTTAAAGTTCCCCAGTGCCTCCTTGTGCATAGACCTTCTTCTCCACCCCCTT
CTGCCCCCTGGGTCCCCGGCCATCCAGCGGGGCTGCCAGAGAACCCCAGACCTGCCCTTACAGTAGTGTAGCGCCC
CCTCCCTCTTTTCGGCTGGTGTAGAAATAGCCAGTAGTGTAGTGCAGGTGTGCTTTTACGTGATGGCGGGTGGGCAGC
GGCGGGCGGGCTCCGCGCAGCCGTCTGTCCTTGATCTGCCCAGCGGGCCCGTGTGTGTTTTGTGCTGTGTCCA
CGCGCTAAGGCGACCCCCTCCCCGTAAGTCTCCTATAAGCGCTTCTCTTCGCATAGTCACGTAGCTCCCA
CCCCACCCTCTTCTGTGTCTCACGCAAGTTTATACTCTAATATTTATATGGCTTTTTTTCTTCGACAAAAAAA
TAATAAACGTTTCTTCTGAAAAGCTG

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FIGURE 1747

MASPPRGWGCCELLLPFMLLGTLCCEPGSGQIRYSMPPELDKGSFVGNIAKDLGLEPQELAERGVRIVSRGRTQLF
ALNPRSGSLVTAGRIDREELCAQSPLCVVNFNILVENKMKIYGVEVEIIDINDNFPRFRDEELKVKNENAAAGT
RLVLPFARDADVGVNSLRSYQLSSNLHFSLDVVSGTDGQKYPELVLEQPLDREKETVHDLTALDGGDPVLSGT
THIRVTVLDANDNAPLFTPSEYSVSVPENIPVGTRLLMLTATDPDEGINGKLTYSFRNEEEKISETFQLDSNLGE
ISTLQSLDYEESRFYLMVVAQDGGALVASAKVVTVQDVNDNAPEVILTSLTSSISEDCLPGTVIALFSVHDGD
SGENGEIACSIIPRNLPFKLEKSVDNYYHLLTTRDLREETS DYNITLTVMDHGTPLSTESHIPKLVADVNDNPP
NFPQASYSTSVTENNPRGVSIFSVTAHDPDSDGNARVTYSLAEDTFQGAPLSSYVSINSDTGVLVYALRSFDYEQ
RDLQLWVTASDSGNPPLSSNVLSLFLVDQNDNTPEILYPALPTDGSTGVELAPRSAEPGYLVTKVAVDKDSGQ
NAWLSYRLKASEPGLFAVGLHTGEVRTARALLDRDALKQSLVVAVEDHGGPPLSATFTVTVAADRIPDILADL
GSIKTPIDPEDLDLTLYLVVAVAAVSCVFLAFVIVLLVLRRLRRWHKSRLQAEGRLAGVPASHFVGVDGVRAFL
QYTSHEVSLTADSRKSHLIFPQPNYADTLLSEESCEKSEPLLMSDKVDANKEERRVQQAPPNTDWRFSQAQRPGT
SGSQNGDDTGTWPNNQFDTEMLQAMILASASEAADGSSTLGGGAGTGMGLSARYGPQFTLQHVPDYRQNVYIPGSN
ATLTNAAGKRDGKAPAGGNGNKKKSGKKEKK

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FIGURE 1748A

ATGGCGCCTCCGCAGAGGCATCCGCAGCGCAGCGAGCAGGTCCTGCTCCTCACGCTCCTGGGGACGCTGTGGGGG
GCCGCGGCAGCGCAGATCCGCTACTCTATTCCCGAGGAGCTGGAGAAAGGCTCCTTCGTAGGCAACATCGTCAAG
GATCTGGGACTGGAGCCCCAGGAGTTGGCGGAGCACGGAGTCCGCATCGTCTCCAGAGGTAGGATGCAGCTTTTC
TCTCTGAATCCGCGAAACGGCAGCTTGGTCACCGCGGGTAGGATAGACCGCGAGGAGCTCTGTGCTCAGAGCCCG
CGGTGTCTGGTGAGTTTTAACATCCTTGTGCGAGGATAAACTGAATCTTTATCCCGTGGAAGTGGAATAGTGGAC
ATTAATGACAATACACCCCGATTCTTAAAGGAAGAATTGGAAGTGAAAATTCTCGAAAACGCAGCTCCATCCTCT
CGTTTTCCACTAATGGAGGTCTATGACCCTGATGTGGGAATGAACTCCCTTCAGGGATTAAAGCTCAGTGGTAAT
AGTCACTTCTCAGTGGACGTGCAAAGCGAAGCCCATGGGCCCAAGTACCCGGAGCTGGTGCTGGAGGGCACACTG
GACCGGGAAGGAGAAGCCGTTTACCGCCTGGTCTTACTGCCATGGATGGCGGCGACCCCTGTCCGCTCAAGCGTC
GCCCAAATTCTGGTAACAGTTCTAGATGTGAATGACAACACTCCAATGTTTACTCAGCCTGTCTACCGTGTAAGT
GTTCTGAAAACCTGCCAGTAGGCACACCAGTGTTGGCAGTGACTGCCACCGACCAGGATGAAGGAGTCCACGGG
GAAGTAACCTTATTCCTTTGTGAAGATTACAGAAAAGATCTCACAATTTTCTGTTTGAATGTTTGTACTGGAGAA
ATTTCAACTTCTGCAAACTAGACTATGAGGACTCGAGTTTTTATGAGCTGGGTGTTGAAGCCCGGGATGGGCCA
GGTCTTCGAGACAGAGCGAAAGTCTTAATAACTATCTTGGATGTCAATGATAATGTACCAGAAGTGGTTGTTACA
TCTGGAAGCAGAACAATTGCTGAAAGTGACCTCCAGGAACAGTAATCGCCCTTTTCAAGTGTTTCGATCGAGAC
TCTGGCCTGAATGGCCTGGTAACCTGTTCCATCCCGAGAAGTCTCCCATTTGAATTGGAATAATCAGTTGGCAAT
TATTATCGATTAGTGACAAATGCAGCTCTAGACCGGGAAGAGGTATTCTTGTACAACATCACTGTGACAGCCACG
GACAAAGGAACACCACCTCTGTCTACAGAAACAATCATCTCTCTAAATGTGGCAGACACCAACGACAACCCGCC
ACCTTCCCCCATTCATCCTACTCAGTCTATGTCTTGAAAACAACCCAGGGGTGCCTCCATCTTCTCTGTGAAT
GCACTGGACCCTGACGTGGACCAGAACGCCCAAGTCTCTACTCACTGGCAGAAGACACCCTCCAGGGGGCGCCC
CTGTCTCTCTACGTGTCCATCAACTCCGACACTGGGATTCTGTACGCCCTGCGCTCCTTCGACTATGAGCAGTTG
AGAGACCTACAGCTGTGGGTGACAGCCAGCGACAGCGGGGACCCGCCTCTTAGCAGCAACGTGTCACTGAGCCTG
TTTGTGCTGGACCAGAATGACAATGCGCCCAGATCCTGTACCCCGCCCTCCCCACAGACGGTTCCACTGGCGTG
GAGCTGGCGCCCCGCTCCGCAGAGCCCGGTACCTGGTGACCAAGGTGGTGGCGGTGGACAGAGACTCGGGCCAG
AACGCCTGGCTGTCTACCGCCTGCTCAAGGCCAGCGAGCCAGGACTTTTCTCAGTGGGCCTGCACACGGGCGAG
GTGCGCACGGCGCGCGCCCTGCTGGACAGAGACGCGCTCAAGCAGAGCCTAGTGGTGGCCGTCCAGGACCACGGC
CAGCCCCCTCTCTCCGCCACTGTACGCTCACCGTGGCCGTGGCCGACAGGATCCCCGACATCCTGGCCGACCTG
GGCAGCCTCGAGCCCTCCGCCAAACCCAAAGATTGCGACCTCACTCTGTACCTGGTGGTGGCGGTGGCCGCGGTC
TCCTGCGTCTTCTGGCCTTCGTATCGTGTCTGTCGCTCAGACTGCAGCGCTGGCACAAGTCACGCTGCTG
CAGGCTTCGGGAGGTGGCTTAGCGAGCATGCCCGCTCGCACTTTGTGGGCGTGGAAGGGGTTCCGGCTTTCCTG
CAGACCTATTCCCACGAGGTCTCACTCACTGCAGACTCGCGTAAGAGTCATCTGATTTTCCCCAGCCCACTAT
GCCGACACGCTTATCAACCAGGAGAGCTATGAGAAAAGCGAGCCTCTTCTGATAACTCAGGATTTACTTGAAACG
AAAGGAGAACCAGGCAACTTCAGCAAGCCCCGCCCAACACGGACTGGCGTTTCTCTCAGGCCCAGAGACCCGGC
ACCAGCGGCTCCCAAAATGGCGATGACACCGGCACCTGGCCCAACAACAGTTTGACACAGAGATGCTGCAAGCC
ATGATCTTGGCGTCCGCCAGTGAAGCTGCTGATGGGAGCTCCACCCTGGGAGGGGGTGCCGGCACCATGGGATTG
AGCGCCCGCTACGGACCCCAAGTTACCCCTGCAGCACGTGCCGACTACCGCCAGAATGTCTACATCCCAGGCAGC
AATGCCACACTGACCAACGCAGCTGGCAAGCGGGATGGCAAGGCCCCAGCAGGTGGCAATGGCAACAAGAAGAAG
TCGGGCAAGAAGGAGAAGAAGTAAACATGGAGGCCAGGCCAAGAGCCACAGGGCGGCCTCTCCCCAACAGCCAG
CTTCTCCTTACCTGCACCCAGGCCTCAGAGTTTCAGGGCTAACCCCAAGAATACTGGTAGGGGCCAAGGCCATGC
TCCCTTGGGAAACAGAAACAAGTGCCAGTCAGCACCTACCCCTTCCCCCAGGGGGTTGAATATGCAAAAGC
AGTTCCGCTGGGAACCCCCATCCAATCACTGCTGTACCCATGGGGGTAGTGGGGTTACTGTAGACACCAAGAAC
CATTTGCCACACCCCGTTTAGTTACAGCTGAACTCCTCCATCTTCCAAATCAATCAGGCCCATCCATCCCATGCC
TCCCTCCTCCCCACCCCACTCCAACAGTTCTCTTTCCCGAGTAAGGTGGTTGGGGTGTGAAAGTACCAAGTAAC
CTACAAGCCTCCTAGTTCTGAAAAGTTGGAAGGGCATCATGACCTCTTGGCCTCTCCTTTGATTCTCAATCTTCC
CCCAAAGCATGGTTTGGTGCCAGCCCTTCACCTCCTTCCAGAGCCCAAGATCAATGCTCAAGTTTTGGAGGACA
TGATCACCATCCCCATGGTACTGATGCTTGCTGGATTAGGGAGGGCATTTTGCTACCAAGCCTCTTCCCCACGC
CCTGGGGACAGTCTTCTGTTTTGTTTTTCAATTGTTTGACGTTTCCACTGCATGCCTTGACTTCCCCACCTCCT
CTCAAACAAGAGACTCCACTGCATGTTCCAAGACAGTATGGGGTGGTAAGATAAGGAAGGGAAGTGTGTGGATG

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FIGURE 1748B

TGGATGGTGGGGGCATGGACAAAGCTTGACACATCAAGTTATCAAGGCCTTGGAGGAGGCTCTGTATGTCCTCAG
GGGACTGACAACATCCTCCAGATTCCAGCCATAAACCAATAACTAGGCTGGACCCTTCCCCTACATAATAGGGC
TCAGCCCAGGCAGCCAGCTTTGGGCTGAGCTAACAGGACCAATGGATTAACTGGCATTTCAGTCCAAGGAAGCT
CGAAGCAGGTTTAGGACCAGGTCCCCTTGAGAGGTCAGAGGGGCCTCTGTGGGTGCTGGGTACTCCAGAGGTGCC
ACTGGTGAAGGGTCAGCGGAGCCCCAGCAGGAAGGGTGGGCCAGCCAGGCCATTCTTAGTCCCTGGGTGTTGGGGA
GGCAGGGAGCTAGGGCAGGGACCAATGAACAGAAAGTCTCAGCCCAGGATGGGGCTTCTTCAACAGGGCCCCCTG
CCCTCCTGAAGCCTCAGTCCTTCACCTTGCCAGGTGCCGTTTCTCTTCCGTGAAGGCCACTGCCAGGTCCCCAG
TGCGCCCCCTAGTGGCCATAGCCTGGTTAAAGTTCCCCAGTGCCCTCTTGTCATAGACCTTCTTCTCCCACCCC
CTTCTGCCCTGGGTCCCCGGCCATCCAGCGGGGCTGCCAGAGAACCCAGACCTGCCCTTACAGTAGTGTAGCG
CCCCCTCCCTCTTTCGGCTGGTGTAGAATAGCCAGTAGTGTAGTGCAGGTGTGCTTTTACGTGATGGCGGGTGGGC
AGCGGGCGGCGGGCTCCGCGCAGCCGTCTGTCCTTGATCTGCCCCGCGCGGCCCGTGTGTGTTTTGTGCTGTGT
CCACGCGCTAAGGCGACCCCTCCCCGTAAGTCTCTCTATAAGCGCTTCTCTTCGCATAGTCACGTAGCTC
CCACCCACCCCTTTCCTGTGTCTCAGCAAGTTTTATACTCTAATATTTATATGGCTTTTTTCTTCGACAAAA
AAATAATAAACGTTTCTTCTGAAAAGCTG

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FIGURE 1749

MAPPQRHPORSEQVLLLTLLGTLWGAAAAQIRYSIPEELEKGSFVGNIVKDLGLEPQELAEHGVRIVSRGRMQLF
SLNPRNGSLVTAGRIDREELCAQSPRCLVSFNILVEDKLNLYPVEVEIVDINDNTPRFLKEELEVKILENAAPSS
RFPLMEVYDPDVGMNSLQGFKLSGNSHFSDVQSEAHGPKYPELVLEGTLDREGEAVYRLVLTAMDGGDPVRSSV
AQILVTVLVDVNDNTPMFTQPVYRVSVPENLPVGTPLAVTATDQDEGVHGEVTYSFVKITEKISQIFCLNVLTGE
ISTSANLDYEDSSFYELGVEARDGPGLRDRAKVLITILDVNDNVPEVVVTS GSRTIAESAPPGTVIALFQVFD RD
SGLNGLVTC SIPRSLPFELEKSVGNYYRLVTNAALDREEVFLYNITVTATDKGTPPLSTETIISLNVADTNDNPP
TFPHSSYSVYVLENNPRGASIFSVNALDPDQNAQVSYSLAEDTLQGAPLSSYVSINSDTGILYALRSFDYEQ L
RDLQLWVTASDSGDPPLSSNVSLSLFVLDQNDNAPEILYPALPTDGSTGVELAPRSAEPGYLVTKVVAVD RDSGQ
NAWLSYRLKASEPGLFSVGLHTGEVRTARALLDRDALKQSLVVAVQDHGQPPLSATVTTLTVAVADRIPDILAD L
GSLEPSAKPNDSDLTLYLVVAVAAVSCVFLAFVIVLLALRLQRWHKSRLQASGGGLASMPGSHFVGVEGVRAFL
QTYSHEVSLTADSRKSHLIFPQPNYADTLINQESYEKSEPLLITQDLLETKEGPRQLQQAPPNTDWRFSQAQRPG
TSGSQNGDDTGTWPNNQFDTEMLQAMILASASEAADGSSTLGGGAGTMGLSARYGPQFTLQHVPDYRQNVYIPGS
NATLTNAAGKRDGKAPAGGNGNKKKSGKKEKK

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FIGURE 1750A

ATGGCGGCTCAGCCGAGGGGCGGGGACTACAGAGGATTCTTCCTGCTCTCCATCCTCCTGGGGACCCCCTGGGAA
GCCTGGGCAGGACGTATTCTCTACTCCGTGTCGGAGGAGACGGACAAAGGGTCCTTTGTGGGAGACATCGCCAAAG
GACCTGGGGCTGGAGCCCCGGGAGCTGGCGGAGCGCGGAGTCCGCATCATCTCCAGAGGTAGGACGCGAGCTTTTC
GCCCTGAACCAGCGCAGCGGCAGCTTGGTCACTGCGGGCAGGATAGACCGGGAAGAGATCTGCGCTCAGAGTGCG
CGGTGTCTGGTAACTTTAACATCCTGATGGAAGATAAAATGAATCTTTACCCTATAGACGTGGAAATAATAGAT
ATTAATGACAACGTTCCAAGATTCTTGACGGAAGAAATAAATGTAAAAATAATGGAGAATACAGCTCCTGGGGTT
CGGTTTCCGTTAAGCGAGGCTGGGGATCCAGATGTGGGCACGAACTCCCTCCAGAGTTACCAGCTCAGCCCCAAT
CGCCACTTCTCCCTGGCTGTGCAAAAGTGAGACGATGAAACTAAGTACCCGGAAGTGGTGCTGGAGCGGGTGCTG
GACCGGGAGGAAGAGCGGGTTACCCACCTGGTCTCACAGCCTCTGATGGCGGCGACCCGCCCCGATCCAGCACC
GCCCACATCCAGGTGACAGTGGTGGATGTGAATGACCACACGCCTGTCTTCTCTCTGCTCAGTACCAAGTAACT
GTCCCCGAGAATGTGCCAGTGGGTACAAGACTGCTCACGGTACATGCTATCGACCTGGACGAGGGAGTCAATGGG
GAAGTGACATATTCTTTTCGGAATAAATACTCCTAAACTTCCAAAGATGTTTCATCTGAACTCGCTTACAGGAGAA
ATATCAACTTTAGAAAGGATTAGATTATGAAGAACTGCCTTCTATGAAATGGAGGTTTCAAGCTCAAGATGGTCTCT
GGTAGTCTGACAAAGGCAAAAGTACTGATCACAGTTTTAGATGTAAATGATAATGCTCCAGAAGTGACTATGACG
TCTTTAAGTAGCTCAATCCCTGAAGACACACCTCTTGGGACAGTCAATTGCTCTTTTCTACCTACAAGACAGAGAT
TCTGGAAAGAATGGTGAGGTGACCTGCACCATTCCAGAAAACCTACCTTTTAAATTAGAAAAATCAATAGATAAT
TATTATAGATTGGTCACAACCAAAAACCTTGACCGGGAAACACTCTCTTTGTATAACATCACACTGAAAGCCACA
GATGGTGGAAGTCTCCCTTGTCCAGGGAAACTCACATATTATGCAGGTGGCAGACACCAACGATAAACCACCC
ACCTTCCCCCACTCATCCTACTCAGTCTACATCGCTGAGAACACCCCAAGAGGGGCTCCATTTTCTTAGTGACT
GCACAGGACCACGACAGTGAGGATAATGCCAGATCACTTATTTCCTTGGCCGAAGACACCATCCAGGGGGCTCCA
GTGTCTCTCTATGTCTCCATAAACTCTGACACTGGAGTCTGTACGCGCTGCAATCCTTTGATTATGAGCAGTTG
AGAGAACTACAATAAGAGTGACTGCACATGACAGCGGGGACCCGCCTCTCAGCAGCAACATGTCACTGAGCCTG
TTCGTGCTGGACCAGAATGACAACCCGCCGAGATCCTGTACCCGGCCCTCCCCACAGATGGTTCTACTGGCATG
GAGCTGGCACCCCGCTCCGCGAGAGCCCGGCTACCTGGTGACCAAGGTGGTGGCGGTGGACAAAGATTACAGGCCAG
AACGCCTGGCTGTATACCTCCTGCTTAAGGCCAGCGAGCCAGGACTCTTTGCGGTTGGGCTGTACACGGGCGAG
GTGCGCACGGCTCGGGCCCTGCTGGACAGAGATGCCCTCAAGCAGAGCCTCGTGGTGGCCGTCCAGGACCACGGT
CAGCCTCCTCTGTAGCCACCGTCACACTCACCGTGGCTGTGGCTGACAGCATCCCCGAAGTCTTGGCCGACCTG
GGCAGCCTTGAGCCCTCCGACGGTCTTACAACATGACCTCACGTTGTACCTGGTGGTGGCGGTGGCCACAGTC
TCCTGCGTCTTCTAGCCTTCGTCTCGTACTGCTGGCGCTCAGGCTGCGGCGCTGGCACAAGTCACGCCTGCTG
CAGGCTTCAGAAGGTGGCTTGGCGAACGTGCCACCTCGCACTTTGTGGGCATGGACGGGGTGCAGGCTTTCCTG
CAGACCTATTCCCATGAGGTCTCCCTCACCGCGGACTCTCGGAAGAGTCACTGATCTTCCCCCAGCCCAACTAT
GTAGACATGCTCATCAGCCAGGAGAGCTGTGAGAAAAATGATTCTTTGCTAACATCCGTAGATTTTCAGGAATGT
AAAGAAAACCTGCCAAGTATTAGCAAGCCCCGCCAACACGGACTGGCGTTTCTCTCAGGCCCAGAGACCCGGC
ACCAGCGGCTCCCAAAATGGCGATGACACCGGCACCTGGCCCAACAACAGTTTGACACAGAGATGCTGCAAGCC
ATGATCTTGGCGTCCGCCAGTGAAGCTGCTGATGGGAGCTCCACCCTGGGAGGGGGTGCCGGCACCATGGGATTG
AGCGCCCGCTACGGACCCCAAGTTACCCCTGCAGCACGTGCCGACTACCGCCAGAATGTCTACATCCCAGGCAGC
AATGCCACACTGACCAACGCAGCTGGCAAGCGGGATGGCAAGGCCCCAGCAGGTGGCAATGGCAACAAGAAGAAG
TCGGGCAAGAAGGAGAAGAAGTAACATGGAGGCCAGGCCAAGAGCCACAGGGCGGCCTCTCCCCAACAGCCAG
CTTCTCCTTACCTGCACCCAGGCCTCAGAGTTTCAGGGCTAACCCCCAGAATACTGGTAGGGGCCAAGGCCATGC
TCCCCTTGGGAAACAGAAACAAGTGCCAGTCAGCACCTACCCCTTCCCCCAGGGGGTTGAATATGCAAAAGC
AGTTCCGCTGGGAACCCCCATCCAATCACTGCTGTACCCATGGGGGTAGTGGGGTTACTGTAGACACCAAGAAC
CATTTGCCACACCCCGTTTAGTTACAGCTGAACTCCTCCATCTTCCAAATCAATCAGGCCCATCCATCCCATGCC
TCCCTCCTCCCCACCCCACTCCAACAGTTCTCTTTCCCGAGTAAGGTGGTGGGGTGTGAAAGTACCAAGTAAC
CTACAAGCCTCCTAGTTCTGAAAAGTTGGAAGGGCATCATGACCTCTTGGCCTCTCCTTTGATTCTCAATCTTCC
CCCAAAGCATGGTTTGGTGCCAGCCCTTCACTCCTTCCAGAGCCCAAGATCAATGCTCAAGTTTTGGAGGACA
TGATCACCATCCCCATGGTACTGATGCTTGTGGAATTTAGGGAGGGCATTTTGCTACCAAGCCTCTTCCCAACGC
CCTGGGGACCAAGTCTTCTGTTTTGTTTTTCAATTGTTTGACGTTTCCACTGCATGCCTTGACTTCCCCACCTCCT
CCTCAAACAAGAGACTCCACTGCATGTTCCAAGACAGTATGGGGTGGTAAGATAAGGAAGGAAGTGTGTGGATG

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FIGURE 1750B

TGGATGGTGGGGGCATGGACAAAGCTTGACACATCAAGTTATCAAGGCCTTGGAGGAGGCTCTGTATGTCCTCAG
GGGACTGACAACATCCTCCAGATTCCAGCCATAAACCAATAACTAGGCTGGACCCTTCCCCTACATAATAGGGC
TCAGCCCAGGCAGCCAGCTTTGGGCTGAGCTAACAGGACCAATGGATTAACTGGCATTTCAGTCCAAGGAAGCT
CGAAGCAGGTTTAGGACCAGGTCCCCTTGAGAGGTCAGAGGGGCCTCTGTGGGTGCTGGGTACTCCAGAGGTGCC
ACTGGTGGAAGGGTCAGCGGAGCCCCAGCAGGAAGGGTGGGCCAGCCAGGCCATTCTTAGTCCCTGGGTGGGGA
GGCAGGGAGCTAGGGCAGGGACCAAATGAACAGAAAGTCTCAGCCCAGGATGGGGCTTCTTCAACAGGGCCCCTG
CCCTCCTGAAGCCTCAGTCCTTCACCTTGCCAGGTGCCGTTTCTCTTCCGTGAAGGCCACTGCCCAGGTCCCCAG
TGCGCCCCCTAGTGGCCATAGCCTGGTTAAAGTTCCCCAGTGCCTCCTTGTGCATAGACCTTCTTCTCCACCCC
CTTCTGCCCTGGGTCCCCGGCCATCCAGCGGGGCTGCCAGAGAACCCAGACCTGCCCTTACAGTAGTGTAGCG
CCCCCTCCCTCTTTTCGGCTGGTGTAGAAATAGCCAGTAGTGTAGTGCAGTGTGCTTTTACGTGATGGCGGGTGGGC
AGCGGGCGGGCGGGCTCCGCGCAGCCGTCTGTCCTTGATCTGCCCGCGGCGGCCCGTGTGTGTTTTGTGCTGTGT
CCACGCGCTAAGGCGACCCCTCCCCGTACTGACTTCTCCTATAAGCGCTTCTCTTCGCATAGTCACGTAGCTC
CCACCCACCCCTCTTCTGTGTCTCACGCAAGTTTTATACTCTAATATTTATATGGCTTTTTTTCTTCGACAAAA
AAATAATAAAACGTTTCTTCTGAAAAGCTG

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FIGURE 1751

MAAQPRGGDYRGFFLLSILLGTPWEAWAGRILYSVSEETDKGSFVGDI AKDLGLEPRELAERGVRIISRGR TQLF
ALNQRSGSLV TAGRIDREEICAQSARCLVNFNILMEDKMNLYPIDVEIIDINDNVRFLTEEINVKIMENTAPGV
RFPLSEAGDPDVG TNSLQSYQLSPNRHFS LAVQSGDDETKYPELVLERVLDREEERVHHLVLTASDGGDP PRSST
AHIQVTVDVNDHTP VFSLPQYQVTPENVPVGTRLLTVHAIDLDEGVNGEV TYSFRKITPKLPKMFHLNSLTGE
ISTLEGLDYEETAFYEMEVQAQDGP GSLTKAKVLITVLDVNDNAPEVTMTSLSSSIPEDTPLGTVIALFY LQDRD
SGKNGEVTCTIPENLPFKLEKSIDNYYRLVTTKNLDRETLSLYNITLKATDGGTPPLSRETHIFMQVADTNDNPP
TFPHSSYSVYIAENNPRGASIFLVTAQDHDSEDNAQITYSLAEDTIQGAPVSSYVSINS DTGVLYALQSF DYEQL
RELQLRVTAHDSGDPEPLSSNMSLSL FVLDQNDNPPEILYPALPTDGSTGMELAPRSAEPGYLVTKVVAVDKDSGQ
NAWLSYLLLKASEPGLFAVG LYTGEVRTARALLDRDALKQSLVVAVQDHGQPPLSATVTLTVAVADSIPEVLADL
GSLEPSDGPYNYDLTLYLVVAVATVSCVFLAFVLVLLALRLRRWHKSRL LQASEGGLANVPTSHFVGMDGVQAF L
QTY SHEVSLTADSRKSHLIFPQPNYVDMLISQESCEKNDSLLTSVDFQECKENLP SIQQAPPNTDWRFSQAQRPG
TSGSQNGDDTGTWPNNQFDTEMLQAMILASASEAADGSSTLGGGAGTMGLSARYGPQFTLQHVPDYRQNVYIPGS
NATLTNAAGKR DGKAPAGGNGNKKKSGKKEKK

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FIGURE 1752A

ATGGCAGCTCCAACCAAATGCCAGCTCCGCGGAAGATTAGTCCTGCTATGCTCGCTCCTGGGGATGCTATGGGAG
GCCAGGGCCAGTCAGATTGCTACTCAGTGCCTGAAGAGACAGAAAAGGGCTATATTGTGGGCAACATCTCCAAG
GACCTGGCTCTGGAGCCCCGGGAGCTGGCGGAGCGCCGAGTCCGCATCGTCTCTAGAGGTAGGACGCAGCTTTTC
TCTCTGAACCCGCGCAGCGGCACCTTGGTACCGCGGGTAGGATAGACCGGGAGGAGCTCTGTGCTCAGAGCCCG
CGGTGTCTGGTGAACTTTAAAGTCCTGGTTGAAGACAGAGTGAACTGTACGGAATAGAAATAGAAGTAACTGAT
ATTAACGACAGCGCCCCAAAGTTCAGGCCGAAAGTCTGGAAGTAAAAATTAACGAAATCGCGGTTTCTGGAGCA
CGTTATCCACTTCCAGAAGCTATTGATCCGGATGTTGGCGTGAACCTCCCTCCAGAGCTACCAGCTCAGCCCCAAT
CACCATTCTCCCTGAACGTGCAGACTGGAGACAATGGAGCCATAAACCCAGAGCTGGTGTGGAGCGCGCCCTG
GACAGGGAGGAGGCAACTGCCACCACCTGGTCTCACGGCTCGGATGGCGGCGAGCCGCTCGCTCCAGCACA
GTGCGCATCCATGTGACAGTGTGGATACAAATGATAATGCCCCGGTTTTTGCTCAACGGATTTACCGAGTTAAA
GTCTTGAGAACGTGCCCCCAGGCACCTGGCTGCTTACTGCAACAGCCAGCGACCTGGATGAGGGAATCAACGGA
AAAGTGGCATACAAATCTGGAAAATTAATGAAAAACAATCTCTGCTATTCCAGCTTAATGAAAATACTGGGGAA
ATATCAACAGCAAAAAGTCTAGATTATGAAGAATGTTTCAATTTTATGAAATGAAAATACAAGCTGAAGATGGTGGG
GGATTGAAAGGGTGGACAAAAGTGCTCATTTCCGGTGGAAAGATGTAAATGACAATAGACCTGAAGTGACCATTACA
TCTCTGTTTAGCCAGTGAGAGAAGACGCACCTCAGGGAACAGTAATTCTTCTTTTCAATGCTCATGACCGAGAC
TCCGGGAAGAATGGTCAAGTTGTCTGTTCTATCCAGGAGAATCTATCTTTTACATTAGAAAATTCAGAAGAAGAT
TATTACAGATTGTTGACGGCCCCAAATCTTGACCGAGAAAAAGCCTCAGAATATAATATCACGGTGACTGCAACA
GACAGAGGAACTCCGCCCTGTCCACAGAAATTCACATCACCTGCAAGTGACTGACATCAATGATAATCCACCT
GCTTTCTCTCAAGCCTCCTACTCAGTCTACCTCCCGGAAAACAACGCCAGAGGTACTTCCATCTTCTCCGTGATT
GCCTATGACCTGATAGCAATGAGAATTCTAGAGTTATTTACTCCTTGGCAGAGGATACCATCCAAGGTCTCCT
CTCTCCACCTATGTCTCTATTAACCTCAGACACTGGTGTGCTGTATGCTCTGTGCTCCTTTGACTATGAGCAGTTT
AGAGATTTGCAATGCAGGTGACGGCAAGTGACAGTGAAGCCCACCCTTAGCAGCAATGTGTCAATTGAGACTG
TTTGTTTTGGACCAGAATGACAATGCCCCAGAAATCCTGTACCCTGCCCTCCCCACTGATGGTTCTACTGGTGTG
GAGCTGGCACCCCGCTCTGCAGAGCCTGGCTACCTGGTGACCAAGGTGGTGGCAGTGGACAGAGACTCAGGCCAG
AATGCTTGGCTCTCCTACCGCCTATTCAAGGCCAGTGAGCCAGGGCTCTTCTCGGTGGGGCTGCACACAGGTGAA
GTGCGCACAGCTCGGGCCCTGCTAGATAGAGATGCGCTCAAACAGAGCCTTGTGGTGGCTGTACAGGACCATGGC
CAGCCCCCTCTCTCGGCCACTGTCAGCTCACAGTAGCCATAGCTGACAGCATCCCAGACATCCTGGCTGACCTG
GGCAGTCTTCAGATCCCTGCAGACCTGGAGGCCTCAGACCTTACCCTCTACCTCGTTGTGGCTGTGGCAGTCGTC
TCCTGTGTCTTCTCACCTTCGTTATCACGCTGCTGGCCCTCAGGCTGAGGCACTGGCACTCCTCGCATCTGCTG
CGGGCTACCAGTGATGGGTTGGCTGGTGTGCCACCTCACACTTTGTGGGTGTAGATGGGGTTTCGAGCTTTCCTA
CAGACCTATTCTCAGGAGTTCTCCCTCACCGCTGACTCAAGGAAGAGTCACCTGATCTTCCCCAGCCCACTAT
GCAGACACACTCATCAGCCAGCAGAGCTGTGAGAAAAATGAGCCTTTGTGCGTCTCTGTTGATTCCAAGTTTCCT
ATAGAAGACACCCCTTTGGTTCCGCAAGCCCCGCCAACACGGACTGGCGTTTCTCTCAGGCCCAGAGACCCGGC
ACCAGCGGCTCCCAAAATGGCGATGACACCGGCACCTGGCCCAACAACCAGTTTGACACAGAGATGCTGCAAGCC
ATGATCTTGGCGTCCGCCAGTGAAGCTGCTGATGGGAGCTCCACCCTGGGAGGGGGTGCCGGCACCATGGGATTG
AGCGCCCGCTACGGACCCAGTTTACCCTGCAGCACGTGCCGACTACCGCCAGAATGTCTACATCCCAGGCAGC
AATGCCACACTGACCAACGCAGCTGGCAAGCGGGATGGCAAGGCCCCAGCAGGTGGCAATGGCAACAAGAAGAAG
TCGGGCAAGAAGGAGAAGAAGTAACATGGAGGCCAGGCCAAGAGCCACAGGGCGGCCTCTCCCCAACAGCCAG
CTTCTCCTTACCTGCACCCAGGCCTCAGAGTTTACGGGCTAACCCCCAGAATACTGGTAGGGGCCAAGGCCATGC
TCCCCTTGGGAAACAGAAACAAGTGCCAGTCAGCACCTACCCTTCCCCCAGGGGGTTGAATATGCAAAAGC
AGTTCCGCTGGGAACCCCATCCAATCAACTGCTGTACCCATGGGGGTAGTGGGGTTACTGTAGACACCAAGAAC
CATTTGCCACACCCCGTTTAGTTACAGCTGAACCTCCTCCATCTTCCAAATCAATCAGGCCCATCCATCCCATGCC
TCCCTCCTCCCCACCCCACTCCAACAGTTCTCTTTCCCGAGTAAGGTGGTTGGGGTGTGAAAGTACCAAGTAAC
CTACAAGCCTCCTAGTTCTGAAAAGTTGGAAGGGCATCATGACCTCTTGGCCTCTCCTTTGATTCTCAATCTTCC
CCCAAAGCATGGTTTTGGTGCCAGCCCCCTCACCTCCTCCAGAGCCCAAGATCAATGCTCAAGTTTTGGAGGACA
TGATACCATCCCATGGTACTGATGCTTGCTGGATTAGGGAGGGCATTTTGCTACCAAGCCTCTTCCCAACGC
CCTGGGGACAGTCTTCTGTTTTGTTTTTCAATTGTTTGACGTTTCCACTGCATGCCTTGACTTCCCCACCTCCT
CCTCAAACAAGAGACTCCACTGCATGTTCCAAGACAGTATGGGGTGGTAAGATAAGGAAGGAAGTGTGTGGATG

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FIGURE 1752B

TGGATGGTGGGGGCATGGACAAAAGCTTGACACATCAAGTTATCAAGGCCTTGGAGGAGGCTCTGTATGTCCTCAG
GGGACTGACAACATCCTCCAGATTCCAGCCATAAACCAATAACTAGGCTGGACCCTTCCCCTACATAATAGGGC
TCAGCCCAGGCAGCCAGCTTTGGGCTGAGCTAACAGGACCAATGGATTAACTGGCATTTCAGTCCAAGGAAGCT
CGAAGCAGGTTTAGGACCAGGTCCCCCTTGAGAGGTCAGAGGGGCCTCTGTGGGTGCTGGGTACTCCAGAGGTGCC
ACTGGTGGAAGGGTCAGCGGAGCCCCAGCAGGAAGGGTGGGCCAGCCAGGCCATTCTTAGTCCCTGGGTGGGGA
GGCAGGGAGCTAGGGCAGGGACCAAAATGAACAGAAAGTCTCAGCCCAGGATGGGGCTTCTTCAACAGGGCCCCTG
CCCTCCTGAAGCCTCAGTCCTTACCTTGCCAGGTGCCGTTTCTCTTCCGTGAAGGCCACTGCCCAGGTCCCCAG
TGCGCCCCCTAGTGGCCATAGCCTGGTTAAAGTTCCCCAGTGCCTCCTTGTGCATAGACCTTCTTCTCCACCCC
CTTCTGCCCCCTGGGTCCCCGGCCATCCAGCGGGGCTGCCAGAGAACCCAGACCTGCCCTTACAGTAGTGTAGCG
CCCCCTCCCTCTTTTCGGCTGGTGTAGAAATAGCCAGTAGTGTAGTGCAGGTGTGCTTTTACGTGATGGCGGGTGGGC
AGCGGGCGGGCGGGCTCCGCGCAGCCGTCTGTCCTTGATCTGCCGCGGCGGCCCGTGTGTGTTTTGTGCTGTGT
CCACGCGCTAAGGCGACCCCTCCCCCGTACTGACTTCTCCTATAAGCGCTTCTCTTCGCATAGTCACGTAGCTC
CCACCCACCCCTCTTCTGTGTCTCACGCAAGTTTTATACTCTAATATTTATATGGCTTTTTTTCTTCGACAAAA
AAATAATAAAACGTTTCTTCTGAAAAGCTG

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FIGURE 1753

MAAPTKCQLRGRLVLLCSLLGMLWEARASQIRYSVPEETEEKGYIVGNISKDLALEPRELAERRVRIVSRGRTQLF
SLNPRSGTLVTAGRIDREELCAQSPRCLVNFKVLVEDRVKLYGIEIEVTDINDSAPKFQAESLEVKINEIAVPGA
RYPLPEAIDPDVGVNSLQSYQLSPNHHFSLNVQTDNGAINPELVLERALDREEATAHHLVLTASDGGEPRRSST
VRIHVTVLDTNDNAPVFAQRIYRVKVLENVPPGTWLLTATASDLDEGINGKVAYKFWKINEKQSLLFQLNENTGE
ISTAKSLDYEECSFYEMEIQAEDGGGLKGWTKVLISVEDVNDNRPEVTITSLFSPVREDAPQGTVILLFNAHARD
SGKNGQVVCSIQENLSFTLEENSEEDYYRLLTAQILDREKASEYNITVTATDRGTPPLSTEIHITLQVTDINDNPP
AFSQASYSVYLPENNARGTSIFSVIAYDPDSNENSRVIYSLAEDTIQGSPLSTYVSINSDTGVLYALCSFDYEQF
RDLQMQVTASDSGSPPLSSNVSLRFLVLDQNDNAPEILYPALPTDGSTGVELAPRSAEPGYLVTKVAVDRDSGQ
NAWLSYRLFKASEPGLFSVGLHTGEVRTARALLDRDALKQSLVVAVQDHGQFPLSATVTTLTVAIADSIPDILADL
GSLQIPADLEASDLTLYLVAVAVVSCVFLTFVITLLALRLRHWHSSHLLRATSDGLAGVPTSHFVGVDGVRAFL
QTYSQEFSLTADSRKSHLIFPQPNYADTLISQQSCEKNEPLCVSVDSKFFIEDTPLVPQAPPNTDWRFSQAQRPG
TSGSQNGDDTGTWPNNQFDTEMLQAMILASASEAADGSSTLGGGAGTMGLSARYGPQFTLQHVPDYRQNVYIPGS
NATLTNAAGKRDGKAPAGGNGNKKKSGKKEKK

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FIGURE 1754A

ATGCAGAGAGCCAGAGAAGCCGAAATGATGAAAAGTCAGGTACTGTTTCCCTTCCTGCTGTCTTTGTTCTGCGGG
GCCATCTCCCAGCAGATCCGATACACGATTCCAGAGGAGCTAGCCAACGGCTCACGGGTGGGGAAACTTGCCAAG
GATCTGGGGCTCAGTGTCCGGGAGTTGCCAACTCGAAAACCTGCGGGTTAGTGCAGAGGATTATTTCAACGTTAGT
TTGGAGAGCGGGGATTTGTTAGTGAACGGTAGGATAGATCGAGAGAAGATTTGCGGAAGGAACTTGAGTGTGCA
CTAGAATTCGAAACGGTCGCTGAAAACCCAATGAATGTTTTCCACGTGGTTGTTGTAATCCAAGATATTAATGAC
AATGCACCACGTTTCGTTGCAAAAGGCATTGACTTAGAAATTTGTGAGTCAGCCTTACCCGGGGTAAAATTCTCT
CTGGATTCTGCTCAAGATGCAGATGTGGAAGGCAATTCCTGAAGTTATACACCATCAACCCCAATCAATACTTC
TCTCTGTCAACGAAGGAAAGTCCTGATGGAAGTAAATATCCGGTATTACTGCTGGAAAAACCTCTAGACAGGGAA
CATCAGAGCTCTCATCGCTTAATCCTGACTGCCATGGATGGCGGGGACCCGCCTCTAAGCGGCACCACCCATATC
TGGATCCGAGTTACGGATGCCAATGATAATGCTCCCGTGTTTAGCCAGGAGGTATACAGGGTTAGCCTCCAAGAA
AACGTACCGTGGGGAACTCCCGTCTGCGGGTGATGGCCACAGACCAGGATGAGGGCATTAAATGCAGAGATCACC
TATGCCTTCCTCAATTCCCCAATAAGTACCAGCCTCTTCAATCTCAATCCAAATACTGGCGACATCACAACCAAT
GGCACATTGGATTTTGAAGAGACAAGTAGATATGTGTTGAGTGTGGAAGCTAAGGATGGAGGAGTACACACAGCT
CACTGTAATGTTCAAATAGAAATTGTTGACGAGAATGACAATGCCCCAGAGGTGACATTTCATGTCTTCTCTAAC
CAGATTCCAGAGGATTACAGACCTTGGAAGTGAATAGCCCTCATAAAAGTGCGAGACAAGGATTCTGGGCAAAAT
GGCATGGTGACATGCTATACTCAGGAAGAAGTTCCTTTCAAATTAGAATCCACCTCGAAGAATTATTACAAGCTG
GTGATTGCTGGAGCCCTAAACCGGGAGCAGACAGCAGACTACAACGTCACAATCATAGCCACCGACAAGGGCAAA
CCAGCCCTTTCTCCAGGACAAGCATCACCTGCACATCTCCGACATCAACGACAATGCACCTGTTTTCCATCAG
GCCTCCTATGTGGTCCACGTGTCTGAGAACAACCCACCTGGCGCCTCCATTGCACAAGTAAGCGCCTCCGACCCG
GATTTGGGACCCAACGGCAGAGTCTCCTACTCTATTCTGGCCAGTGACCTGGAGCCGCGGGAGCTGTTGTCTTAC
GTGTCCGTGAGCCCGCAGAGCGGGGTGGTGTTCGCGCAGCGCGCCTTCGACCACGAGCAGCTGCGCGCCTTCGAG
CTCACACTGCAGGCCAGGGACAGGGCTCCCCCGCGCTCAGCGCCAACGTGAGCCTGCGCGTGTGGTGGGCGAC
CTCAATGACAATGCGCCACGGGTGCTGTACCCCGCGCTGGGGCCTGATGGCTCCGCCCTCTTCGATATGGTGCCA
CGCGCCGAGAGCCCGGCTACCTGGTGACCAAGGTGGTGGCGGTGGACGCACTCAGGACACAACGCTTGGCTG
TCCTACCAGTGCTGCAGGCCAGCGAGCCCGGGCTCTTCAGCCTGGGGTTGCGCACGGGTGAGGTGCGCACAGCG
CGTGCTTGGGCGACAGGGACGCGGCCCGCCAGCGCCTGCTGGTTCGCTGTGCGTGATGGAGGACAGCCGCCACTC
TCCGCCACCGCCACGCTGCACCTAATCTTCGCGGATAGCCTGCAAGAGGTATTGCCAGACCTCAGCGACCGCCCT
GAGCCCTCTGACCCCCAGACGGAAGTGCAGTTTTACCTGGTTGTGGCCTTGGCCTTGATCTCAGTGCTCTTTCTC
CTCGCGGTGATTCTAGCGATCGCCCTGCGCCTGCGACGTTCTCCAGCCTCGACACTGAGGGCTGCTTTCAAACC
GGTCTCTGCTCCAAGTCTGGGCCCCGGGTTTCTCCCAACCACAGCGAGGGGACTTTGCCCTATTCTTACAATCTA
TGTATTGCCTCTCATTCTGCAAAGACAGAGTTTAATTCTCTCAACCTGACACCGGAAATGGCTCCCCCTCAGGAT
CTGCTGTGTGATGATCCTTCTATGGTTGTATGTGCCAGTAATGAAGATCACAAAATCGCTTATGACCCCTTCTTTG
TCTTCGCACCAAGCCCCGCCCAACACGGACTGGCGTTTCTCTCAGGCCCAGAGACCCGGCACAGCGGCTCCCAA
AATGGCGATGACACCGGCACCTGGCCCAACAACCAAGTTTGACACAGAGATGCTGCAAGCCATGATCTTGGCGTCC
GCCAGTGAAGCTGCTGATGGGAGCTCCACCCTGGGAGGGGTGCCGGCACCATGGGATTGAGCGCCCCGCTACGGA
CCCCAGTTACCCCTGCAGCACGTGCCCGACTACCGCCAGAATGTCTACATCCCAGGCAGCAATGCCACACTGACC
AAGCAAGTAAACATGGAGGCCAGGCCAAGAGCCACAGGGCGGCTCTCCCCAACAGCCAGCTTCTCCTTACCTGC
ACCCAGGCCTCAGAGTTTCAGGGCTAACCCCAAGAACTACTGGTAGGGGCCAAGGCCATGCTCCCTTGGGAAACA
GAAACAAGTGCCAGTCAGCACCTACCCCTTCCCCCAGGGGGTTGAATATGCAAAAGCAGTTCCGCTGGGAAC
CCCCATCCAATCAACTGCTGTACCCATGGGGGTAGTGGGGTTACTGTAGACACCAAGAACCATTGCCACACCCC
GTTTAGTTACAGCTGAACCTCCTCCATCTTCAAATCAATCAGGCCCATCCATCCCATGCCTCCCTCCTCCCCACC
CCACTCCAACAGTTCTCTTTCCCGAGTAAGGTGGTTGGGGTGTGAAAGTACCAAGTAACCTACAAGCCTCCTAG
TTCTGAAAAGTTGGAAGGGCATCATGACCTCTTGGCCTCTCCTTTGATTCTCAATCTTCCCCCAAAGCATGGTTT
GGTGCCAGCCCTTACCTCCTTCCAGAGCCCAAGATCAATGCTCAAGTTTTGGAGGACATGATCACCATCCCCA
TGGTACTGATGCTTGTGATTTAGGGAGGGCATTGCTACCAAGCCTCTTCCCAACGCCCTGGGGACAGTCT
TCTGTTTTGTTTTTCATTGTTTGACGTTTCCACTGCATGCCTTGACTTCCCCACCTCCTCCTCAAACAAGAGAC
TCCACTGCATGTTCCAAGACAGTATGGGGTGGTAAGATAAGGAAGGAAGTGTGTGGATGTGGATGGTGGGGCA

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FIGURE 1754B

TGGACAAAGCTTGACACATCAAGTTATCAAGGCCTTGGAGGAGGCTCTGTATGTCCTCAGGGGACTGACAACATC
CTCCAGATTCCAGCCATAAACCAATAACTAGGCTGGACCCTTCCCACTACATAATAGGGCTCAGCCCAGGCAGCC
AGCTTTGGGCTGAGCTAACAGGACCAATGGATTAACTGGCATTTAGTCCAAGGAAGCTCGAAGCAGGTTTAGG
ACCAGGTCCCCTTGAGAGGTGAGAGGGGCTCTGTGGGTGCTGGGTACTCCAGAGGTGCCACTGGTGGAAGGGTC
AGCGGAGCCCCAGCAGGAAGGTGGGCCAGCCAGGCCATTCTTAGTCCCTGGGTGGGGAGGCAGGGAGCTAGGG
CAGGGACCAAATGAACAGAAAGTCTCAGCCCAGGATGGGGCTTCTTCAACAGGGCCCCCTGCCCTCCTGAAGCCTC
AGTCCTTCACCTTGCCAGGTGCCGTTTCTCTTCCGTGAAGGCCACTGCCAGGTCCCCAGTGCGCCCCCTAGTGG
CCATAGCCTGGTTAAAGTTCCCCAGTGCCCTCTTGTGCATAGACCTTCTTCTCCCACCCCCCTTCTGCCCTGGGT
CCCCGGCCATCCAGCGGGGCTGCCAGAGAACCCCAGACCTGCCCTTACAGTAGTGTAGCGCCCCCTCCCTCTTTC
GGCTGGTGTAGAAATAGCCAGTAGTGTAGTGCAGGTGTGCTTTTACGTGATGGCGGGTGGGCAGCGGGCGCGGGCT
CCGCGCAGCCGTCTGTCTTGATCTGCCCAGCGCGGCCGTGTTGTGTTTTGTGCTGTGTCCACGCGCTAAGGCG
ACCCCTCCCCCGTACTGACTTCTCCTATAAGCGCTTCTCTTCGCATAGTCACGTAGCTCCCACCCACCTCTT
CCTGTGTCTCAGCAAGTTTATACTCTAATATTTATATGGCTTTTTTCTTCGACAAAAAATAATAAACGTT
TCTTCTGAAAAGCTG

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FIGURE 1755

MQRAREAEMMKSQVLFPFLLSLFCGAISQQIRYTIPEELANGSRVGKLA KDLGLSVREL PTRKLRVSAEDYFNVS
LESGDLLVNGRIDREKICGRKLECALEFETVAENPMNVFHVVVVIQDINDNAPREFVAKGIDLEICESALPGVKFS
LDSAQDADVEGNSLKLYTINPNQYFSLSTKESPDGSKYPVLLLEKPLDREHQSSHRLILTAMDGGDPPLSGTTHI
WIRVTDANDNAPVFSQEVYRVSLQENVPWGTSVLRVMATDQDEGINAEITYAFLNSPISTSLFNLNPNTGDITTN
GTLDFEETSRYVLSVEAKDGGVHTAHCNVQIEIVDENDNAPEVTFMSFSNQIPEDSDLGTVIALIKVRDKDSGQN
GMVTCYTQEEVFPKLESTSKNYYKLVIAGALNREQTADYNVTIIATDKGKPALSSRTSITLHISDINDNAPVFHQ
ASYVVHVSENPPGASIAQVSASDPDLGPNGRVSYSLASDLEPRELLSYVSVSPQSGVVFAQRAFDHEQLRAFE
LTLQARDQGSPALSANVSLRVLVGD LNDNAPRVLYPALGPDGSALFDMVPRAAEPGYLVTKVVAVDADSGHNAWL
SYHVLQASEPGLFSLGLRTGEVRTARALGDRDAARQRLLVAVRDGGQPPLSATATLHLIFADSLQEVLPDLSDRP
EPSPQTELQFYLVVALALISVLFLLAVILAIALRLRRSSSLDTEGCFQTGLCSKSGPGVPPNHSEGTLPYSYNL
CIASHSAKTEFNLSNLTPEMAPPQDLLCDDPSMVVCASNEDHKIAYDPSLSSHQAPPNTDWRFSQAQRPGTSGSQ
NGDDTGTWPNNQFDTEMLQAMILASASEAADGSSTLGGGAGTMGLSARYGPQFTLQHVPDYRQNVYIPGSNATLT
NAAGKRDGKAPAGGNGNKKKSGKKEKK

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FIGURE 1756A

ATGAAAGCGAGCTCAGGGAGGTGCGGGCTGGTGCGGTGGCTGCAGGTACTGTTGCCCTTCCTGTTGTCTTTGTTT
CCCCGGGGCTCTCCAGTCCAGATCCGCTATTCAATTCCAGAGGAGCTGGCCAAAACTCGGTTCGTAGGAAACCTC
GCCAAGGATCTGGGGCTCAGCGTCCGGGACTTGCCAGCCCCGAAGCTGCGGGTTAGCGCGGAGAAGGAATATTTTC
ACAGTAAACCCAGAAAGCGGAGACTTACTTGTGAGTGACAGAATAGACCGAGAACAGATATGCGGGAAGCAGCCT
CTGTGTGTTCTGGATTTCGATACTGTCGCTGAAAATCCACTAAATATTTTCTACATAGCAGTAATTGTGCAGGAT
ATAAATGATAATACCCCGCTATTCAAACAGACTAAGATTAATTTAAAAATTGGCGAATCCACTAAGCCAGGTACA
ACATTTCCACTTGACCCAGCCCTGGATTGAGATGTTGGTCCTAACTCACTACAAAGATACCACCTTAATGACAAC
GAGTACTTTGATCTCGCTGAGAAACAGACTCCAGATGGTCGTAAATATCCTGAGTTGATTCTAAAACACTCTCTG
GACAGAGAAGAGCACAGTTTACATCAATTGGTCCTCACAGCTGTGGATGGCGGAGACCCACCTCAAAGTGGCAGC
ACCCAAATCCGAATCAAAGTCACGGATGCCAACGATAACCCTCCAGTGTTCAGCCAGGACGTGTACAGGGTCACC
CTGAGGGAGGACGTGCCCGCGGGCTTCTTTGTGCTTCAAGTGACAGCCACCGACCGGGATGAAGGCATAAACGCA
GAGATCACCTACTCCTTTCATAATGTGGACGAACAAGTGAAACACTTTTTCAACTTAAATGAAAAACAGGAGAA
ATCACGACAAAGGATGATTTGGATTTTGAGATTGCAAGTAGTTACACTCTGAGTATCGAAGCAAAAGATCCTGGA
GATCTAGCAGCCCCACTGCAGTATCCAAGTTGAAATCTTGATGACAACGATTGTGCACCTGAAGTTATTGTGACT
TCAGTATCTACTCCCCCTACCGGAGGATTGCGCCACCAGGAACAGTGATCGCCTTGATAAAAAACGAGAGACAGAGAC
TCTGGAGAAAATGGAGAAGTTTACTGCCAAGTGTTGGGAAATGCCAAGTTTATTTTGAAATCTTCCTCAAAGAAC
TATTACAACTAGTGACAGACGGCGCTCTGGACCGGGAGGAGATCCAGAATACAATCTCACCATCACAGCCACC
GACGGGGGCAAGCCGCCCTCTCCTCCAGCATAATTGTACCCTGCACATCTCCGACGTCAACGATAATGCCCA
GTTTTCCAACAGACTTCTACATGGTTCACGTGGCAGAGAACAATCCTCCTGGCGCCTCTATCGCTCAAATCAGT
GCCTCTGACCCTGACTTGGGCCCCAGTGGCCAAGTTTCTACTCCATCGTAGCGAGCGACCTGAAGCCGCGGGAG
ATTTTATCCTACGTGTCCGTGAGCGCGCAGAGCGGGGTGGTGTTCGCGCAGCGCGCCTTCGATCATGAGCAGCTG
CGCGCCTTCGAGCTCACACTGCAGGCCCCGACACAGGGCTCGCCCGCGCTCAGCGCCAACGTGAGCCTGCGCGTG
TTAGTGGGCGACCTCAATGACAATGCGCCACGGGTGCTGTACCCCGCGCTGCGGGCTGATGGCTCCGCCCTCTTC
GATA'GGTGCCACGCGCCGAGAGCCCCGGCTACCTGGTGACCAAGGTGGTGGCGGTGGACGCAGACTCAGGACAC
AACGCTTGGCTGTCTACCAGTGCTGCAGGCCAGCGAGCCCCGGGCTCTTCAGCCTGGGGTTGCGCACGGGTGAG
GTGCGCACAGCGCGTGCCTTGGGCGACAGGGACGCGGCCCGCCAGCGCCTGCTGGTTCGCTGTGCGTGATGGAGGA
CAGCCGCCACTCTCCGCTACGGCCACGCTGCACCTAATCTTCGCGGATAGCCTGCAAGAGGTATTGCCAGACCTC
AGCGACCGCCGGGAGCCCTCTGACCCCCAGGCAAACTGCAGTTTTACCTGGTTGTGGCCTTGGCCTTGATCTCA
GTGCTCTTCTTCCTCGCGGTGATTCTGGCAATCTCCCTGCGCCTGCGACTCTCTTCCAGGTGAGGTGCTTGGGAC
TGTTTTACAGCTGGTCTCAGCTCCAAGCCTGGACCTGGGGTTCTCCCAATTACAGTGAGGGTACATTGCCCTAT
TCCTACAACCTGTGTGTTGCCTCACAATCAGCCAAGACAGAGTTCAATTTTCTGAACATAACCCCGGAATTGGTT
CCGCGCAAGATCTCGTCTGTGACAATGCCTCTTGGGAACAAAATACAAATCATGGAGCCGCTGGGGTCCCTTTT
GCCTCAGATACTATTTTGAAGCAAGCCCCGCCCCAACAGGACTGGCGTTTCTCTCAGGCCCAGAGACCCGGCACC
AGCGGCTCCCAAAATGGCGATGACACCGGCACCTGGCCCAACAACAGTTTGACACAGAGATGCTGCAAGCCATG
ATCTTGGCGTCCGCCAGTGAAGCTGCTGATGGGAGCTCCACCTGGGAGGGGGTGCCGGCACCATGGGATTGAGC
GCCCCTACGGACCCAGTTTACCCTGCAGCACGTGCCCCACTACCGCCAGAATGTCTACATCCAGGCAGCAAT
GCCACACTGACCAACGCAGCTGGCAAGCGGGATGGCAAGGCCCCAGCAGGTGGCAATGGCAACAAGAAGAAGTCG
GGCAAGAAGGAGAAGAAGTAACATGGAGGCCAGGCCAAGAGCCACAGGGCGGCCTCTCCCCAACCAGCCCAGCTT
CTCCTTACCTGCACCCAGGCCTCAGAGTTTACGGGCTAACCCCCAGAATACTGGTAGGGGGCAAGGCCATGCTCC
CCTTGGGAAACAGAAACAAGTGCCAGTCAGCACCTACCCCTTCCCCCCCAGGGGGTTGAATATGCAAAAGCAGT
TCCGCTGGGAACCCCATCCAATCAACTGCTGTACCCATGGGGGTAGTGGGGTTACTGTAGACACCAAGAACCAT
TTGCCACACCCGTTTAGTTACAGCTGAACTCCTCCATCTTCCAAATCAATCAGGCCCATCCATCCCATGCTCC
CTCTCCCCACCCACTCCAACAGTTCTCTTCCCGAGTAAGGTGGTTGGGGTGTGAGTACCAAGTAACCTA
CAAGCTCCTAGTTCTGAAAAGTTGGAAGGGCATCATGACCTCTTGGCCTCTCCTTTGATTCTCAATCTTCCCC
AAAGCATGGTTTGGTGCCAGCCCTTACCTCCTTCCAGAGCCCAAGATCAATGCTCAAGTTTGGAGGACATGA
TCACCATCCCCATGGTACTGATGCTTGTGGATTTAGGGAGGGCATTTTGCTACCAAGCCTCTTCCCAACGCCCT
GGGGACAGTCTTCTGTTTTGTTTTTTCATTGTTTGACGTTTCCACTGCATGCCTTGACTTCCCCACCTCCTCCT
CAACAAGAGACTCCACTGCATGTTCCAAGACAGTATGGGGTGGTAAGATAAGGAAGGGAAGTGTGTGGATGTGG

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FIGURE 1756B

ATGGTGGGGGCATGGACAAAGCTTGACACATCAAGTTATCAAGGCCTTGGAGGAGGCTCTGTATGTCCTCAGGGG
ACTGACAACATCCTCCAGATTCCAGCCATAAACCAATAACTAGGCTGGACCCTTCCCCTACATAATAGGGCTCA
GCCCAGGCAGCCAGCTTTGGGCTGAGCTAACAGGACCAATGGATTAAACTGGCATTTCAGTCCAAGGAAGCTCGA
AGCAGGTTTAGGACCAGGTCCCCTTGAGAGGTCAGAGGGGCCTCTGTGGGTGCTGGGTACTCCAGAGGTGCCACT
GGTGAAGGGTCAGCGGAGCCCCAGCAGGAAGGGTGGGCCAGCCAGGCCATTCTTAGTCCCTGGGTTGGGGAGGC
AGGGAGCTAGGGCAGGGACCAATGAACAGAAAGTCTCAGCCCAGGATGGGGCTTCTTCAACAGGGCCCCTGCCC
TCCTGAAGCCTCAGTCCTTACCTTGCCAGGTGCCGTTTCTCTTCCGTGAAGGCCACTGCCCAGGTCCCCAGTGC
GCCCCCTAGTGGCCATAGCCTGGTTAAAGTTCCCCAGTGCCTCCTTGTGCATAGACCTTCTTCTCCACCCCCCTT
CTGCCCCCTGGGTCCCCGGCCATCCAGCGGGGCTGCCAGAGAACCCAGACCTGCCCTTACAGTAGTGTAGCGCCC
CCTCCCTCTTTCGGCTGGTGTAGAAATAGCCAGTAGTGTAGTGCGGTGTGCTTTTACGTGATGGCGGGTGGGCAGC
GGCGGGCGGGCTCCGCGCAGCCGTCTGTCCTTGATCTGCCCAGCGCGGCCCGTGTGTTGTGTTTTGTGCTGTGTCCA
CGCGCTAAGGCGACCCCTCCCCCGTACTGACTTCTCCTATAAGCGCTTCTCTTCGCATAGTCACGTAGCTCCCA
CCCCACCTCTTCTGTGTCTCACGCAAGTTTATACTCTAATATTTATATGGCTTTTTTTCTTCGACAAAAAAA
TAATAAAACGTTTCTTCTGAAAAGCTG

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FIGURE 1757

MKASSGRCGLVRWLQVLLPFLLSLFPGALPVQIRYSIPEELAKNSVVGNLAKDLGLSVRDLPAKLRVSAEKEYF
TVNPESGDLVSDRIDREQICGKQPLCVLDFDTVAENPLNIFYIAVIVQDINDNTPLFKQTKINLKIGESTKPGT
TFPLDPALDSVGPNSLQRYHLNDNEYFDLAEKQTPDGRKYPELILKHSLDREEHSLHQLVLTAVDGGDPPQSGT
TQIRIKVTDANDNPPVFSQDVYRVTLREDVPPGFFVLQVTATDRDEGINAEITYSFHNVDEQVKHFFNLNEKTGE
ITTKDDLDFEIASSTLSIEAKDPGDLAAHCSIQVEILDDNDCAPEVIVTSVSTPLPEDSPPGTVIALIKTRDRD
SGENGEVYCQVLGNAKFILKSSSKNYYKLVTGDALDREEIPEYNLTITATDGGKPPLSSSIIVTLHISDVNDNAP
VFQOTSVMVHVAENNPPGASIAQISASDPDLGPSQVSYISIVASDLKPREILSYVSVSAQSGVVFQAQAFDHEQL
RAFELTLQARDQGSPALSANVSLRVLVGDLNDNAPRVLYPALGPDGSALFDMVPRAAEPGYLVTKVVAVDADSGH
NAWLSYHVLQASEPGLFSLGLRTGEVRTARALGDRDAARQRLLVAVRDGGQPPLSATATLHLIFADSLQEVL PDL
SDRREPSDPQAKLQFYLVVALALISVLFFLAVILAI SLRLRLSSRSDAWDCFQFGLSSKPGPGVLPNYSÉGTLPY
SYNLCVASQSAKTEFNFLNITPELVPAQDLVCDNASWEQNTNHGAAGVPFASDTILKQAPPNTDWRFSAQRPGT
SGSQNGDDTGTPNPNQFDTEMLQAMILASASEAADGSSTLGGGAGT MGLSARYGPFQFTLQHVPDYRQNVYIPGSN
ATLTNAAGKRDGKAPAGNGNKKKSGKKEKK

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FIGURE 1758A

ATGGGAAATAGCTCCGGATGGAGGGGGCCAGCAGGGCAGAGGCGAATGCTATTTCTCTTCCTGCTCTCTTTGTTA
GACCAGGTTCTCTCCGAACCGATCCGCTACGCTATTCCCGAGGAGCTGGACAGGGGGCTCGCTGGTAGGGAACCTC
GCCAAGGACCTGGGGTTTGGCGTGGGGGATTACCTACTAGGAACCTGCGGGTTATTGCAGAGAAGAAATTCCTTT
ACCGTGAGCCCCGAAAATGGGAACCTTACTTGTGAGCGACCGTATAGACCGAGAGGAGATTTGTGGCAAGAAGTCG
ACGTGTGTTCTGGAATTTGAAATGGTTGCTGAAAAGCCTTTAAACTTTTTTCATGTAACCTGTGCTGATCCAGGAT
ATTAACGACAACCCACCGACCTTTAGCCAAAATATCACTGAGCTGGAAATCAGCGAACTGGCTCTCACTGGAGCC
ACATTGCCCCTGGAATCTGCGCAAGATCCTGATGTAGGTGTCAATTCGCTGCAGCAGTACTACCTCAGCCCTGAT
CCGCACCTTCTCTTTGATTCAAGAGGAGAACCTGGATGGCAGTAGGTACCCAGAGCTAGTACTGAAAGCACCCCTG
GACAGGGAAGAGCAGCCACATCACCACCTGGTCCTCACAGCTGTGGATGGGGGCGAGCCCTCCAGAAGCTGTACC
ACCCAGATCAGGGTAATTGTGCGAGATGCAATGATAACCCCCCAGTATTTACTCAGGACATGTACAGGGTCAAT
GTTGCAGAGAACCTGCCCGCTGGCTCCTCCGTATTAAAAGTGATGGCCATTGACATGGATGAGGGCATCAATGCC
GAAATCATCTATGCCCTTCATCAATATTGGCAAGGAAGTGAGACAACCTGTTCAAGCTGGACAGTAAAACGGGGGAA
CTCACCACTATTGGAGAACTGGACTTTGAAGAGAGAGATAGCTACACAATTGGGGTGAAGCAAAGGATGGTGGA
CATCACACTGCATATTGTAAAGTACAGATAGATATTTAGATGAAAATGACAATGCCCCGGAGATAACCCCTGGCT
TCTGAATCCCAACATATACAAGAAGATGCTGAGCTGGGGACTGCCGTTGCCCTGATCAAAACACATGATCTAGAT
TCTGGATTTAATGGAGAAATCCTATGCCAACTAAAAGGAACTTCCCTTTAAAATCGTTCAAGATACCAAAAAC
ACATACAGGTTGGTGACAGATGGAGCCCTGGACCGGGAGCAGATCCAGAATAACAATGTGACGATCACAGCTACC
GACAAAGGCAATCCACCGCTCTCCTCCAGCAAGACCATCACTCTGCACATCCTTGATGTCAACGACAACGTTCCC
GTTTTCCACCGGCTCCTACACCGTGCATGTAGCTGAGAACAATCCGCTGGAGCCTCCATTGCGCATGTCAGA
GCCTCGGATCCCGACTTGGGACCTAATGGCCTTGTCTCCTACTACATCGTGGCCAGTGACCTGGAGCCGCGGGAG
CTGTGCTCTACGTGTCCGTGAGCGCGCGGAGCGGGGTGGTGTTCGCGCAGCGAGCCTTCGACCACGAGCAGCTG
CGTGCCTTCGAGCTCACTCTGCAGGCCGCGACCAGGGCTCGCTACGCTCAGCGCCAACGTGAGCCTGCGCGTG
TTGGTGGACGACCGCAACGACAATGCACCGCTGGTGTGTACCCAGCTCTGGGGCCGAAGGCTCTGCGCTCTTC
GATATGGTGCCGCGCTCTGCAGAGCCTGGCTACCTGGTGACCAAGGTGGTGGCGGTGGACGCAGACTCGGGATAC
AACGCCTGGCTGTCTTACCACATGTGCAGGCCAGCGAGCCCGGGCTGTTACGCCTGGGCCTGCGCACGGGTGAG
GTGCGCACGGCGCGTACCTTGGGCGACAGGGAGGCCGCCCGCCAGCGCCTGCTGGTCACTGTGCGTGATGGAGGA
CAGCAGCCTCTTTACGCCACCGTCATGCTGCACCTAATCTTCGCAGATAGCTTGCAAGAGATAACAACCTGACCTT
AGCGACCGCCCCACTCCCTCTGACCCTCAGCGGAGCTACAGTTTACCTAGTAGTGGCGTTGGCCTTGATCTCA
GTGCTCTTCTCTCTCGCGGTGATTCTGGCAATCTCCCTGCGCCTGCGATGCTCCTCCAGACCCGCCACTGAGGGC
TACTTTACGCCTGGTGTCTGCTTCAAGACTGTACCTGGAGTTCTCCCCACCTACAGCGAAAGGACTTTGCCTTAT
TCCTACAATCCGTGTGCTGCCTCACATTCTTCAAACACCGAGTTTAAATTTCTCAATATAAAGGCTGAAAATGCT
GCACCACAAGATCTTCTATGTGATGAAGCCTCTTGGTTTGAAGTAATGACAATCCAGAAATGCCTTCTAATTCA
GGCAATTTGCAAAGCAAGCCCCGCCAACACGGACTGGCGTTTCTCTCAGGCCAGAGACCCGGCACCAGCGGC
TCCCAAATGGCGATGACACCGGCACCTGGCCCCAACCAACAGTTTGACACAGAGATGCTGCAAGCCATGATCTTG
GCGTCCGCCAGTGAAGCTGCTGATGGGAGCTCCACCTGGGAGGGGGTGCCGGCACCATTGGGATTGAGCGCCCGC
TACGGACCCAGTTTACCCTGCAGCACGTGCCCCGACTACCGCCAGAATGTCTACATCCCAGGCAGCAATGCCACA
CTGACCAACGCAGCTGGCAAGCGGGATGGCAAGGCCCCAGCAGGTGGCAATGGCAACAAGAAGTGGGCAAG
AAGGAGAAGAAGTAACATGGAGGCCAGGCCAAGAGCCACAGGGCGGCCTCTCCCCAACCAGCCAGCTTCTCCTT
ACCTGCACCCAGGCCTCAGAGTTTACGGGCTAACCCCCAGAATACTGGTAGGGGCCAAGGCCATGCTCCCCTTGG
GAAACAGAAACAAGTGCCAGTCAGCACCTACCCCTTCCCCCCCCAGGGGGTTGAATATGAAAAGCAGTTCCGCT
GGGAACCCCCATCCAATCAACTGCTGTACCCATGGGGGTAGTGGGGTACTGTAGACACCAAGAACCATTTGCCA
CACCCCGTTTGTAGTACAGCTGAACTCCTCCATCTTCCAAATCAATCAGGCCATCCATCCCATGCCTCCCTCCTC
CCCACCCCACTCCAACAGTTTCTCTTTCCCGAGTAAGGTGGTGGGGTGTGAAGTACCAAGTAACCTACAAGCC
TCCTAGTTCTGAAAAGTTGGAAGGGCATCATGACCTCTTGGCCTCTCCTTTGATTCTCAATCTTCCCCAAAGCA
TGGTTTGGTGCCAGCCCTTACCTCCTTCCAGAGCCCAAGATCAATGCTCAAGTTTGGAGGACATGATACCA
TCCCCATGGTACTGATGCTTGCTGGATTTAGGGAGGGCATTTTGCTACCAAGCCTCTTCCCCACGCTTCCCTCAAACA
CAGTCTTCTGTTTTTGTTCATTGTTTGACGTTTCCACTGCATGCCTTGACTTCCCCCACCTCTCCTCAAACA
AGAGACTCCACTGCATGTTCCAAGACAGTATGGGGTGGTAAGATAAGGAAGGGAAGTGTGTGGATGTGGATGGTG

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FIGURE 1758B

GGGGCATGGACAAAGCTTGACACATCAAGTTATCAAGGCCTTGGAGGAGGCTCTGTATGTCCTCAGGGGACTGAC
AACATCCTCCAGATTCCAGCCATAAACCAATAACTAGGCTGGACCCTTCCCCTACATAATAGGGCTCAGCCCAG
GCAGCCAGCTTTGGGCTGAGCTAACAGGACCAATGGATTAAACTGGCATTTCAGTCCAAGGAAGCTCGAAGCAGG
TTTAGGACCAGGTCCCCTTGAGAGGTCAGAGGGGCCTCTGTGGGTGCTGGGTACTCCAGAGGTGCCACTGGTGGA
AGGGTCAGCGGAGCCCCAGCAGGAAGGGTGGGCCAGCCAGGCCATTCTTAGTCCCTGGGTGGGGAGGCAGGGAG
CTAGGGCAGGGACCAAATGAACAGAAAGTCTCAGCCCAGGATGGGGCTTCTTCAACAGGGCCCCTGCCCTCCTGA
AGCCTCAGTCCTTACCTTGCCAGGTGCCGTTTCTCTTCCGTGAAGGCCACTGCCAGGTCCCCAGTGCGCCCCC
TAGTGGCCATAGCCTGGTTAAAGTTCCCCAGTGCCCTCCTTGTGCATAGACCTTCTTCTCCCACCCCCTTCTGCCC
CTGGGTCCCCGGCCATCCAGCGGGGCTGCCAGAGAACCCCAGACCTGCCCTTACAGTAGTGAGCGCCCCCTCCC
TCTTTCGGCTGGTGTAGAATAGCCAGTAGTGAGTGCGGTGTGCTTTTACGTGATGGCGGGTGGGCAGCGGGCGG
CGGGCTCCGCGCAGCCGTCTGTCTTGATCTGCCCGCGGCGGCCCGTGTGTGTTTTGTGCTGTGTCCACGCGCT
AAGGCGACCCCCTCCCCCGTACTGACTTCTCCTATAAGCGCTTCTCTTCGCATAGTCACGTAGCTCCCACCCAC
CCTCTTCTGTGTCTCACGCAAGTTTATACTCTAATATTTATATGGCTTTTTTTCTTCGACAAAAAATAATAA
AACGTTTCTTCTGAAAAGCTG

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FIGURE 1759

MGNSSGWRGPAGQRRMLFLFLLSLLDQVLSEPIRYAIPeelDRGSLVGNLAKDLGFGVGDLPTRNLRVIAEKKFF
TVSPENGNNLLVSDRIDREEICGKKSTCVLEFEMVAEKPLNFFHVTVLIQDINDNPPTFSQNITELEISELALTGA
TFALESAQDPDVGVNSLQQYYLSPDPHFSLIQKENLDGSRYPELVLKAPLDREEQPHHHLVLTAVDGGEPSRSCT
TQIRVIVADANDNPPVFTQDMYRVNVAENLPAGSSVLKVMaidMDEGINAEIIYAFINIGKEVRQLFKLDSKTGE
LTTIGELDFEERDSYTIgVEAKDGGHHTAYCKVQIDISDENDNAPEITLASESQHIQEDAELGTAVALIKTHDLD
SGFNGEILCQLKGNFPFKIVQDTKNTRYRLVTDGALDREQIPEYNVTITATDKGNPPLSSSKTITLHILDVNDNVP
VFHQASYTVHVAENNPPGASIAHVRSADPDLGPNGLVSYIIVASDLEPRELSSYVSVSARSgvvFAQRAFDHEQL
RAFELTLQARDQGSPTLSANVSLRVLVDDRNDNAPLVLYPALGPEGSALFDMVPRSAEPGYLVTKVVAVDADSGY
NAWLSYHIVQASEPGLFSLGLRTGEVRTARTLGdREAARQRLVTVRDGGQQPLSATVMLHLIFADSLQEIQPD
SDRPTPSDPQAELOFHLVVALALISVLFLLAVILAIslRLRCSSRPATEGYFQPGVCfKTVPGVLPTYsERTLPY
SYNPCAASHSSNTEfKFLNIKAENAAPQDLLCDEASWFESNDNPEmpSnsGNLQKQAPPNTDWRFSQAQRPGTSG
SQNGDDTGTWPNNQFDTEMLQAMILASASEADGSSTLGGGAGTMGLSARYGPQFTLQHVPDYRQNVYIPGSNAT
LTNAAGKRDGKAPAGGNGNKKKSGKKEKK

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FIGURE 1760A

ATGGGGAGCGGGCGCCGGGGAGCTGGGCCGGGCTGAGAGGCTGCCAGTGCTCTTTCTCTTCCTGCTGTCTTTGTTC
TGCCCCGGCGCTCTGTGAGCAGATCCGCTACAGGATTCCCGAGGAAATGCCCAAGGGCTCCGTTAGTGGGGAACCTC
GCCACGGACCTGGGGTTCAGCGTCCAGGAGTTACCGACTCGAAAACCTGCGCGTCAGTTCGGAGAAGCCTTACTTC
ACCGTGAGCGCAGAGAGCGGGGAGTTGCTTGTGAGCAGCAGGCTAGACAGGGAGGAGATATGCGGGAAGAAGCCA
GCTTGTGCTCTGGAATTTGAGGCTGTTGCTGAAAATCCACTGAACTTTTATCACGTGAATGTGGAGATCGAGGAC
ATTAATGACCACACGCCAAAATTCACGCAAAATTCCTTTGAGCTGCAAATAAGTGAGTCTGCACAGCCTGGCACA
AGATTTATACTAGAAGTAGCAGAAGATGCAGATATTGGCTTAAACTCTCTGCAGAAGTATAAACTCTCTCTTAAC
CCAAGTTTCTCATTAAATAATTAAGGAGAAACAGGATGGTAGTAAATACCCGGAACCTGGCACTGGAGAAAACCTTA
GACCGGGAACAACAGAGTTACCATCGTTTAGTCTGACTGCCTTGGACGGTGGACATCCACCCCTAAGCGGCACC
ACTGAGCTCCGGATCCAGGTAACCGACGCCAATGATAATCCCCGGTATTCAACCGAGACGTGTACAGAGTCAGC
CTTCGGGAAAACGTGCCACCAGGCACCACTGTGTTGCAAGTGTACGCCACTGACCAAGACGAGGGCATCAACTCA
GAAATTACTTATTCTTTCTACAGAACCGGGCAAATCTTTAGTCTGAATTCAAAGAGCGGAGAAATTACCCTCAA
AAGAACTGGATTTTGAAGAGACCAAGGAATATTCAATGGTTGTAGAAGGGAGGGATGGTGGTGGACTGGTTGCA
CAATGTACAGTTGAAATTAATATTCAAGATGAAAATGACAATAGCCAGAAAGTTACATTCCATTCTCTACTTGAA
ATGATTCTGGAAAACCGGGTGCCTGGAACACTAATTGCTTTGATCAAAATACATGACCAAGATTCTGGGGAAAAT
GGGGAGGTTAATTGTCAATTACAAGGCGAAGTCCCTTTTAAGATTATCTCTTCATCCAAAATTCGTATAAGTTG
GTAACAGATGGAACCTTAGACCGAGAGCAAACCCCGGAGTACAATGTCACCATCACAGCCACAGACAGGGGCAAG
CCGCCCTCTCCTCCAGCATAAGCGTCATCTACATATCAGAGACGTCAACGATAACGCTCCGGTTTCCACCAG
GCGTCTACTTAGTCAGTGATCCCGAAAACAACCTCCTGGGGCCTCCATCGCGCAAGTCTGCGCCTCGGACCTG
GACTTGGGGTTGAACGGCCAAGTCTCTACTCTATCATGGCCAGCGACCTAGAGCCTCTGGCACTGGCCTCTTAC
GTGTCCATGAGCGCGCAAAGTGGGGTGGTGTTCGCGCAGCGCGCCTTTGACTACGAGCAGCTGCGCACCTTCGAA
CTCACACTACAGGCCCCGCGACCAGGGCTCGCCTGCGCTCAGCGCAAACGTGAGCCTGCGCGTGTGGTGGGCGAC
CGAAACGACAACGCACCGCGGGTGTGTACCCCGCGCTGGGTCCCGACGGCTCTGCGCTCTTCGATATGGTGGCG
CGCGCTGCAGAGCCCCGCTACCTGGTGACCAAGGTAGTGGCGTGGACGCAGACTCAGGACACAACGCCTGGCTG
TCCTACCACGTGCTGCAGGCTAGCGAGCCCCGGGCTCTTCAGCCTGGGGCTGCGCACAGGAGAGGTGCGCACAGCG
CGTGCTTGGGCGACAGGGACGCGGCCCGCCAGCGCTGCTGGTTGCTGTGCGTGATGGTGGACAGCCGCCACTC
TCCGCCACCGCCACGCTGCACTTGGTCTTTGCTGACAGCTTGCAGGAGGTGCTGCCGGATATCACTGACCGCCCT
GTACCCTCTGACCCCCAGGCTGAGCTGCAGTTTTACCTAGTGGTGGCCTTGGCCTTGATCTCAGTGTCTTCTCTC
CTGGCCGTGATTCTGGCCGTTGCCTTGCCTGCGCCTGCGACGCTCCTCCAGCCCTGCCGCTGGAGCTGCTTCCAACCT
GGTCTCTGTGTCAAGTCTGGACCTGTGGTTCCCCCAACTACAGTCAGGGGACTTTGCCTTATTCTTACAACCTA
TGTGTTGCACATACAGGAAAGACGGAGTTTAATTTCTTAAATGTAGTGAGCAATTGAGTTCAGGACAAGACATA
CTTTGTGGTGATTCTATCTGGGGCCTTATTTCCACTTTGTAATTCCAGCGAGTCGACTTCCCATCTGAGTTGCAA
GCCCCGCCAAACACGACTGGCGTTTCTCTCAGGCCCAGAGACCCGGCACCAGCGGCTCCCAAATGGCGATGAC
ACCGGCACCTGGCCCAACAACAGTTTGACACAGAGATGCTGCAAGCCATGATCTTGGCGTCCGCCAGTGAAGCT
GCTGATGGGAGCTCCACCCTGGGAGGGGTGCGGCGACCATGGGATTGAGCGCCCGCTACGGACCCAGTTTACC
CTGCAGCACGTGCCCGACTACCGCCAGAATGTCTACATCCCAGGCAGCAATGCCACACTGACCAACGCAGCTGGC
AAGCGGGATGGCAAGGCCCCAGCAGGTGGCAATGGCAACAAGAAGAGTCCGGCAAGAAGGAGAAGAAGTAACAT
GGAGGCCAGGCCAAGAGCCACAGGGCGGCTCTCCCCAACAGCCAGCTTCTCCTTACCTGCACCCAGGCCTCA
GAGTTTCAGGGCTAACCCCCAGAATACTGGTAGGGGCAAGGCCATGCTCCCCCTGGGAAACAGAAACAAGTGCC
CAGTCAGCACCTACCCCTTCCCCCCCCAGGGGTTGAATATGCAAAAGCAGTTCCGCTGGGAACCCCATCCAATC
AACTGCTGTACCCATGGGGGTAGTGGGGTACTGTAGACACCAAGAACCATTGCCCACACCCCGTTTAGTTACAG
CTGAACTCCTCCATCTTCCAAATCAATCAGGCCCATCCATCCCATGCCTCCCTCCTCCCCACCCCACTCCAACAG
TTCTCTTTCCCGAGTAAGGTGGTTGGGGTGTGAAAGTACCAAGTAACCTACAAGCCTCCTAGTTCTGAAAAGTT
GGAAGGGCATCATGACCTCTTGGCCTCTCCTTTGATTCTCAATCTTCCCCCAAAGCATGGTTTGGTGCCAGCCCC
TTCACCTCCTTCCAGAGCCCAAGATCAATGCTCAAGTTTTGGAGGACATGATCACCATCCCCATGGTACTGATGC
TTGCTGGATTTAGGGAGGGCATTTTGTACCAAGCCTCTTCCCAACGCCCTGGGGACCACTTCTGTTTTTGTTT
TTCATTGTTTGACGTTTCCACTGCATGCCTTGACTTCCCCCACCTCCTCCTCAAACAAGAGACTCCACTGCATGT
TCCAAGACAGTATGGGGTGGTAAGATAAGGAAGGAAGTGTGTGGATGTGGATGGTGGGGGCATGGACAAAGCTT

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FIGURE 1760B

GACACATCAAGTTATCAAGGCCTTGGAGGAGGCTCTGTATGTCCTCAGGGGACTGACAACATCCTCCAGATTCCA
GCCATAAACCAATAACTAGGCTGGACCCTTCCCACTACATAATAGGGCTCAGCCCAGGCAGCCAGCTTTGGGCTG
AGCTAACAGGACCAATGGATTAAACTGGCATTTCAGTCCAAGGAAGCTCGAAGCAGGTTTAGGACCAGGTCCCCCT
TGAGAGGTCAGAGGGGGCCTCTGTGGGTGCTGGGTACTCCAGAGGTGCCACTGGTGGAAGGGTCAGCGGAGCCCCA
GCAGGAAGGGTGGGGCCAGCCAGGCCATTCTTAGTCCCTGGGTGGGGAGGCAGGGAGCTAGGGCAGGGACCAAAT
GAACAGAAAGTCTCAGCCCAGGATGGGGCTTCTTCAACAGGGCCCCCTGCCCTCCTGAAGCCTCAGTCCTTCACCT
TGCCAGGTGCCGTTTCTCTTCCGTGAAGGCCACTGCCCAGGTCCCCAGTGCGCCCCCTAGTGGCCATAGCCTGGT
TAAAGTTCCCCAGTGCCCTCCTTGTGCATAGACCTTCTTCTCCACCCCCCTTCTGCCCTGGGTCCCCGGCCATCC
AGCGGGGCTGCCAGAGAACCCCAGACCTGCCCTTACAGTAGTGTAGCGCCCCCTCCCTCTTTCGGCTGGTGTAGA
ATAGCCAGTAGTGTAGTGC GGTTGTGCTTTTACGTGATGGCGGGTGGGCAGCGGGCGGCGGGCTCCGCGCAGCCGT
CTGTCTTGTATCTGCCC GCGGCGGCCGTGTTGTGTTTTGTGCTGTGTCCACGCGCTAAGGCGACCCCTCCCCC
GTACTGACTTCTCCTATAAGCGTTCTCTTCGCATAGTCACGTAGCTCCCACCCACCCCTCTTCTGTGTCTCAC
GCAAGTTTTTATACTCTAATATTTATATGGCTTTTTTTCTTCGACAAAAAATAATAAAACGTTTCTTCTGAAAAG
CTG

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FIGURE 1761

MGSGAGELGRAERLPVLFLLSLFCPALCEQIRYRIPEEMPKGSVVGNLATDLGFSVQELPTRKLRVSSEKPYF
TVSAESGELLVSSRLDREEICGKKPACALEFEAVAENPLNFYHVNVEIEDINDHTPKFTQNSFELQISESAQPGT
RFILEVAEDADIGLNSLQKYKLSINPSFSLI I KEKQDGSKYPELALEKTL DREQQSYHRLVLTALDGGHPPLSGT
TELRIQVTDANDNPPVFNRDVYRVSLRENVPPGTTVLQVSATDQDEGINSEITYSFYRTGQIFSLNSKSGEITTQ
KKLDFEETKEYSMVVEGRDGGGLVAQCTVEINI QDEN DNSPEVTFHSLLEMILENAVP GTLIALIKIHDQDSGEN
GEVNCQLQGEVPFKI I SSSKNSYKLVTDGTL DREQTPEYNVTITATDRGKPPLSSSISVILHIRDVNDNAPVFHQ
ASYLVSPENNPPGASIAQVCASDL DLGLNGQVSYSIMASDLEPLALASYVSMSAQSGVVFAQRAFDYEQLRTFE
LTLQARDQGSPALSANVSLRVLVGDRNDNAPRVLYPALGPDGSALFDMVPRAAEPGYLVTKVVAVDADSGHNAWL
SYHVLQASEPGLFSLGLRTGEVRTARALGDRDAARQRLLVAVRDGGQPPLSATATLHLVFA DSLQEVL PDITDRP
VPSDPQAE LQFYL VVALALISVLFLLAVILAVALRLRRSSSPA WSCFQPGLCVKSGPVVPPNYSQGTLPYSYNL
CVAHTGKTEFNFLKCSEQLSSGQDILCGDSSGALFPLCNSSESTSHPELQAPPNTDWRFSQAQRPGTSGSQNGDD
TGTWPNNQFDTEMLQAMILASASEAADGSSTLGGGAGTMGLSARYGPQFTLQHVPDYRQNVYIPGSNATLTNAAG
KRDGKAPAGNGNKKKSGKKEKK

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FIGURE 1762A

ATGGGAGGGAGCTGCGCGCAGAGGCGCGGGCCGGCCCGCGGCAGGTGCTATTTCCCTTTGCTGCTGCCTTTGTTC
TACCCACCCCTGAGTGAGCCGATCCGCTACTCGATTCCGGAGGAGCTGGCCAAGGGCTCGGTGGTGGGGAACCTC
GCTAAGGATCTAGGGCTCAGTGTCCTGGATGTGTCGGCTCGCAAGCTGCGAGTGAGCGCGGAGAAGCTGCACCTC
AGCGTAGACGCGGAGAGCGGGGACTTACTTGTGAAGAACCGAATAGACCGTGAGCAAATATGCAAAGAGAGAAGA
AGATGTGAGTTGCAATTGGAAGCTGTGGTGGAAAATCCTTTAAATATTTTTTCATGTCATTGTGGTGATTGAGGAT
GTTAATGACCACGCCCCCTCAATTTGATAAAAAGGAAATACATTTAGAAATTTTCGAATCTGCATCCGCTGGTACA
CGACTATCGCTTGACCCCTGCCACGGATCCTGATATAAACATAAACTCAATTAAAGATTATAAGATAAACTCTAAT
CCTTATTTTTTCATTAATGGTTAGAGTTAATTCCGATGGTGGCAAATACCCAGAGTTATCTCTGGAGAACTCCTA
GACCGGGAAGAACAGAGATCTCATAGCTTGATATTGACTGCCTTGGACGGAGGGGACCCACCAAGAAGTGCCACC
GCTCACATAGAAATTTCTGTCAAGGATACCAATGATAACCCCCCGGTTTTTCAGCAGAGACGAATATAGAATTAGT
CTTAGTGAAAATCTGCCCCCTGGGTCCCCTGTGTTGCAAGTGACAGCCACTGACCAGGATGAGGGGGTCAATGCT
GAGATAAACTACTACTTCCGAAGCACTGCCCAGAGCACAAAACATATGTTCTCATTGGATGAGAAAACAGGTATG
ATTAAGAATAACCAGTCATTTGATTTTGAAGATGTAGAAAGGTACACCATGGAAGTGGAAGCGAAGGACGGAGGT
GGTCTCTCTACCCAGTGTAAGTAATCATAGAAATCCTTGATGAAAACGACAACAGCCAGAAATAATCATCACT
TCTCTCTCTGATCAGATTTTGGAGAATTCACCTCCAGGAATGGTTGTTGCCCTCTTCAAAACACGGGATCTGGAT
TTCGGAGGAAATGGAGAAGTCAGGTGTAAATATAGAAACAGACATTCCATTCAAGATTTATTCTTCTTCCAATAAC
TACTACAACTGGTGACAGATGGAGCCCTGGACCGAGAGCAGACACCAGAATACAATGTCACCATCGTAGCCACT
GACAGGGGCAAGCCGCTCTTTCTTCCAGTAGAAGCATCACCTTGATGTGCTGACATCAACGACAACGCCCCA
GTTTTTCGACCAGACGTCCTACGTGGTCCACGTGGCCGAGAACAACCCGCCAGGAGCCTCCATTGCGCAAGTGAGC
GCCTCTGACCCGGATTTGGGGCTCAATGGCCACATCTCCTACTCTATAGTGGCGAGTGACCTAGAGCCCTGGCG
GTGTCGTATACGTGTCAAGTGAGCGCGCAGAGCGGGGTGGTGTTCGCGCAGCGCGCCTTTGATCAGAGCAGCTG
CGCGCCTTTCGCGCTCAGCTGCAGGCCCGCGACCACGGCTCGCCACGCTCAGCGCCAACGTGAGCCTGCGCGTG
TTGGTGGGAGACCGCAATGACAACGCACCGCGGGTGCTGTACCCAGCTCTGGGTCTGACGGCTCCGCGTTCTTC
GATATGGTACCTCGCTCTGTCAGAGCCCGGCTACCTAGTGACTAAGGTGGTAGCGGTGGACGCCGACTCGGGACAC
AACGCCTGGCTGTCTACCACGTGCTGCAGGCCAGTGAGCCCGGACTCTTCAGCCTGGGGCTGCGCACTGGGGAG
GTGCGCACGGCTCGAGCCTTAGGCGACAGGGACGCAGCCCGCCAGCGCCTGCTGGTCTGCTGTGCGTGACGGTGGA
CAGCCGCCACTCTCTGCCACCGCCACGCTTCATCTGGTCTTCGACAGACAACCTGCAAGAGATACTGCCAGACCTC
AGCGACCGCCCTGTACTCTCTGACCCCGAGGCTGAAGTGCAGTTTTACCTGGTGGTGGCCTTGSCCTTAATCTCA
GTGCTCTTCTCTCTCGCCGTGATTCTGGCCATTGCCTTGCGCCTGCGACGCTCTCTCAGCCCTGCTACTTGGGAC
TGCTTCCATCCTGGTCTCTGTGTCAAGTCTGGACCTGTAGTTCCCCCAACTACAGTGAGGGGACTTTGCCTTAT
TCTTATAATCTGTGCATTGCACATACGGGTACAAAAGAGTTTAATTTCTTAAATGCAGTGTGCCCTACATTCC
AATGAAGACATGGTTTGCAGTGTCTCTCTGGAGCCTTAATTCACCTCATGGTGGGGAGGATTTGACTTCACAT
CCTGAGACTCTGACTTCGCAAGCCCCGCCAACACGGACTGGCGTTTCTCTCAGGCCAGAGACCCGGCACCAGC
GGCTCCCAAAATGGCGATGACACCGGCACCTGGCCCAACAACAGTTTGACACAGAGATGCTGCAAGCCATGATC
TTGGCGTCCGCCAGTGAAGCTGCTGATGGGAGCTCCACCCTGGGAGGGGTGCCGGCACCATGGGATTGAGCGCC
CGCTACGGACCCAGTTACCCCTGCAGCACGTGCCGACTACCGCCAGAATGTCTACATCCCAGGCAGCAATGCC
ACACTGACCAACGCAGCTGGCAAGCGGGATGGCAAGGCCCCAGCAGGTGGCAATGGCAACAAGAAGAGTCGGGC
AAGAAGGAGAAGAAGTAACATGGAGGCCAGGCCAAGAGCCACAGGGCGGCCTCTCCCCAACAGCCAGCTTCTC
CTTACCTGCACCCAGGCCTCAGAGTTTCAGGGCTAACCCCGAGAATACTGGTAGGGGCCAAGGCCATGCTCCCC
TGGGAAACAGAAACAAGTGCCAGTCAGCACCTACCCCTTCCCCCGAGGGGGTTGAATATGCAAAAGCAGTTCC
GCTGGGAACCCCATCCAATCAACTGCTGTACCCATGGGGGTAGTGGGGTTACTGTAGACACCAAGAACCATTG
CCACACCCCGTTTAGTTACAGCTGAAGTCCCTCCATCTTCCAAATCAATCAGGCCCATCCATCCCATGCCTCCCTC
CTCCCCACCCACTCCAACAGTTCTCTTTCCCGAGTAAGGTGGTTGGGGTGTGTAAGTACCAAGTAACCTACAA
GCCTCCTAGTTCTGAAAAGTTGGAAGGGCATCATGACCTCTTGGCCTCTCCTTTGATTCTCAATCTTCCCCAAA
GCATGGTTTGGTGCCAGCCCTTCACCTCCTTCCAGAGCCCAAGATCAATGCTCAAGTTTTGGAGGACATGATCA
CCATCCCCATGGTACTGATGCTTGTGGATTTAGGGAGGGCATTTTGTACCAAGCCTCTTCCCAACGCCCTGGG
GACCAGTCTTCTGTTTTGTTTTTCATTGTTTGACGTTTCCACTGCATGCCTTGACTTCCCCACCTCTCTCTCAA
ACAAGAGACTCCACTGCATGTTCCAAGACAGTATGGGGTGGTAAGATAAGGAAGGAAGTGTGTGGATGTGGATG

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FIGURE 1762B

GTGGGGGCATGGACAAAGCTTGACACATCAAGTTATCAAGGCCTTGGAGGAGGCTCTGTATGTCCTCAGGGGACT
GACAACATCCTCCAGATTCCAGCCATAAACCAATAACTAGGCTGGACCCTTCCCACTACATAATAGGGCTCAGCC
CAGGCAGCCAGCTTTGGGCTGAGCTAACAGGACCAATGGATTAACTGGCATTTCAGTCCAAGGAAGCTCGAAGC
AGGTTTAGGACCAGGTCCCCCTTGAGAGGTCAGAGGGGCCTCTGTGGGTGCTGGGTACTCCAGAGGTGCCACTGGT
GGAAGGGTCAGCGGAGCCCCAGCAGGAAGGGTGGGCCAGCCAGGCCATTCTTAGTCCCTGGGTGGGGAGGCAGG
GAGCTAGGGCAGGGACCAAATGAACAGAAAGTCTCAGCCCAGGATGGGGCTTCTTCAACAGGGCCCCCTGCCCTCC
TGAAGCCTCAGTCCTTCACCTTGCCAGGTGCCGTTTCTCTCCGTGAAGGCCACTGCCCAGGTCCCCAGTGCGCC
CCCTAGTGGCCATAGCCTGGTTAAAGTTCCCCAGTGCCCTCCTTGTGCATAGACCTTCTTCTCCCACCCCCTTCTG
CCCCCTGGGTCCCCGGCCATCCAGCGGGGCTGCCAGAGAACCCAGACCTGCCCTTACAGTAGTGTAGCGCCCCCT
CCCTCTTTCGGCTGGTGTAGAAATAGCCAGTAGTGTAGTGCGGTGTGCTTTTACGTGATGGCGGGTGGGCAGCGGG
CGGCGGGCTCCGCGCAGCCGTCTGTCTTGATCTGCCCGCGGCGGCCCGTGTGTGTTTTGTGCTGTGTCCACGC
GCTAAGGCGACCCCTCCCCCGTACTGACTTCTCCTATAAGCGCTTCTCTTCGCATAGTCACGTAGCTCCCACCC
CACCCTCTTCCTGTGTCTCAGCAAGTTTATACTCTAATATTTATATGGCTTTTTTCTTCGACAAAAAATAA
TAAAACGTTTCTTCTGAAAAGCTG

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FIGURE 1763

MGGSCAQRRRAGPRQVLFPLLLPLFYPTLSEPIRYSIPEELAKGSVVGNLAKDLGLSVLDVSARKLRVSAEKLHF
SVDAESGDL LVKNRIDREQICKERRRCELQLEAVVENPLNIFHVIVVIEDVNDHAPQFDKKEIHLEIFESASAGT
RLSLDPATDPDININSIKDYKINSNPYFSLMVRVNSDGGKYPELSLEKLLDREEQRSHSLILTALDGGDPPRSAT
AHIEISVKDTNDNPPVFSRDEYRISLSENLP PGSPVLQVTATDQDEGVNAEINYYFRSTAQSTKHMFSLDEKTGM
IKNNQSFDFEDVERYTMEVEAKDGGGLSTQCKVIEILDENDNSPEIIITSLSLSDQILENSPPGMVVALFKTRDL
FGNGEVR CNIEDIPFKIYSSSNYYKLVT DGALDREQTPEYNVTIVATDRGKPPLSSSR SITLYVADINDNAP
VFDQTSYVHVHAENNPPGASIAQVSASDPDLGLNGHISYSIVASDLEPLAVSSYVSVAQSGVVFAQRAFDHEQL
RAFALTLQARDHGSPTLSANVSLRVLVGDRNDNAPRVLYPALGPDGSAFFDMVPRSAEPGYLVTKVVAVDADSGH
NAWLSYHVLQASEPGLFSLGLRTGEVRTARALGDRDAARQRLLVAVRDGGQPPLSATATLHLVFADNLQEILPDL
SDRPVLSDPQAE LQFYLVVALALISVLFLLAVILAIALRLRRSLSPATWDCFHPGLCVKSGPVVPPNYSEGTLPY
SYNLCIAHTGTKEFNFLKCSVPLHSNEDMVCSVSPGALIPPHGGEDLTSHPETLTSQAPPNTDWRFSQAQRPGTS
GSQNGDDTGTWPNNQFDTEMLQAMILASASEAADGSSTLGGGAGTMGLSARYGPFQFTLQHVPDYRQNVYIPGSNA
TLTNAAGKRDGKAPAGGNGNKKKSGKKEKK

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FIGURE 1764A

GCTGCGCAGACCTTGCCCAGCACACCAGATTGCCAGCTCCGAGACCCGGGACTCCTCCTGTCCTGGGCGGAATGC
TCTTTTAGCGCGGTAGAGTGCACTTTCTCCAAGTGGAAAAGCGGGGACCCAGCGAGAACCCGAGCGAACGATGGG
AGGGAGCTGCGCGCAGAGGCGCGGGCCGGCCCGGCAGGTACTATTTCTTTGCTGCTGCCCTTTGTTCTACCC
CACGCTGTGTGAGCCGATCCGCTACTCGATTCCGGAGGAGCTGGCCAAGGGCTCGGTGGTGGGGAACCTCGCTAA
GGATCTAGGGCTTAGTGTCTGGATGTGTGGCTCGCGAGCTGCGAGTGAGCGCGGAGAAAGCTGCACTTCAGCGT
AGACGCGCAGAGCGGGGACTTACTTGTGAAGGACCGAATAGACCGTGAGCAAATATGCAAAGAGAGAAGAAGATG
TGAGTTGCAATTGGAAGCTGTGGTGGAAAATCCTTTAAATATTTTTTCATGTTCATTGTGGTGAATTGAGGATGTTAA
TGACCACGCCCCCTCAATTCCGGAAAGATGAAATAAAGCTTAGAAATCAGTGAATCCGTCAGCCTGGGGATGGGAAC
AATTCTTGAGTCTGCAGAAAGATCCTGATATTAGTATGAATTGCTGAGCAAATACCAACTAAGTCTTAACGAGTA
TTTCTCATTGGTGGAGAAAAGACAATCCTGATGGTGGCAAATATCCAGAATTAGTATTGCAGAAGACTCTGGACCG
AGAAACGCAGAGCGCTCACCCTTGGTACTGACCGCCTTAGATGGTGGGGACCCCTCCCCGAAGCGGTACTGCTCA
GATAAGAATCCTGGTAATAGATGCCAATGACAACCCCCAGTGTTCAGCCAGGACGTGTACAGGGTTAGCCTTCG
GGAAGACGTGCCTCCAGGCACCTCCATCCTGAGAGTGAAGGCCACTGACCAGGACGAGGGCATCAACTCAGAGAT
CACTTATTCTTCTTTGGTGTGGCTGACAAAGCTCAGCACGTGTTCTCTCTGGATTACACTACAGGAAACATTCT
AACTCAGCAGCCTTTGGATTTTGAAGAAGTAGAAAGATATACGATAAACATAGAAGCAAAGACCGAGGATCTCT
CTCAACACGGTGTAAGTAATTGTAGAAGTTGTAGACGAAAACGACAACAGCCCAGAAATAATCATCAGTCACT
CTCTGATCAGATTATGGAGGATTCCCCCTCAGGAGTGGTTGTTGCCCTCTTCAAACACGGGACCAAGACTCAGG
GGAAAATGGGGAAGTCAGGTGTAGCTTAAGTAGAGGTGTTCCATTTAAGATTCACTCTCTCTTAATAATTACTA
CAAGCTAGTAACAGATGAGGCCCTGGATCGGGAGCAGACCCAGAGTACAACGTACCATCGCAGCCACAGACAG
GGGCAAGCCTCCGTTATCCTCCAGCAAACCCATAACCCTGCACATTACTGACGTCAATGACAACGCGCCGGTTTT
CGGACAGTCAGCCTACCTGGTCCACGTGCCAGAAAACAACAGCCGGGTGCCTCCATAGCGCAAGTCAGTGCCTC
TGACCCAGACTTTCGGGCTCAACGCGCGTGTCTCTCTCTCATTGCCAGCGACCTGGAGTCACGAACGCTGTC
GTCCTACGTGTCCGTGAGCGCGCAGAGCGGGGTGGTGTTCGCGCAGCGCGCTTCGACCACGAGCAGCTGCGCAC
CTTCGAGCTCAGCTGCAGGCCCGCGACCAGGGCTCGCCCGCGCTCAGCGCCAATGTGAGCCTGCGCGTGTGGT
GGGCGACCGTAACGACAACGCACCGCGGGTGTGTACCCTGCGCTGGGTCCCGACGGCTCCGCGCTCTTCGACAC
AGTGCCCGGGGCGCGCAGCCAGGCTACCTGGTGACCAAGGTGGTGGCCGTGGACGCGGACTCGGGGCACAATGC
CTGGCTGTCTTACCAGTGGTGCAGGCCAGTGAGCCCGGGCTCTTCAGCCTGGGGCTGCGAACAGGCGAGGTGCG
CATGGTGCCTGCTTTGGGTGACAAGGACTCGGTCCGCCAGCGCTGTAGTCGTGTAAGAGATGGAGGACAGCC
ACCCCTTTCAGCCACTGCCACGTGCACCTGGTGTTCGAGATAGCTTGCAAGAGGTACTGCCGGATTTACGCGA
CCATCCACACCCCTCTGACTCCCAGGCTGAGATGCAGTTTTACCTGGTGGTGGCCTTGGCCTTGATTTCTGTGCT
CTTTCTCCTCGCGGTGATTCTAGCTATTGCTCTACGCTGCGACAGTCTTTACGCCCTACTGCAGGAGACTGCTT
TGAGTCAGTTCTCTGCTCCAAGTCCGGACCTGTGGGTCCCCCAACTACAGTGAGGGAACGTTGCCCTATGCCTA
TAATTTTTGTGTGCTGGGGATCAAATGAATCCAGAATTTAATTTTTTACATCTGTTGATCATTGTCCAGCCAC
ACAAGATAACCTCAACAAAGATAGCATGCTACTGGCTAGCATTTTAAGTCCCAGCGTTGAAGCAGATAAGAAGAT
TCTTAAACAGCAAGCCCCGCCAACACGGACTGGCGTTTCTCTCAGGCCCAGAGACCCGGCACCGGCTCCCA
AAATGGCGATGACACCGGCACCTGGCCCAACAACAGTTTGACACAGAGATGCTGCAAGCCATGATCTTGGCGTC
CGCCAGTGAAGCTGCTGATGGGAGCTCCACCCTGGGAGGGGTGCCGGCACCATGGGATTGAGCGCCCGCTACGG
ACCCAGTTACCCCTGCAGCACGTGCCCGACTACCGCCAGAATGTCTACATCCAGGCAGCAATGCCACACTGAC
CAACGCAGCTGGCAAGCGGGATGGCAAGGCCCCAGCAGGTGGCAATGGCAACAAGAAGAAGTCGGGCAAGAAGGA
GAAGAAGTAACATGGAGGCCAGGCCAAGAGCCACAGGGCGGCTCTCCCAACCAGCCAGCTTCTCCTTACCTG
CACCAGGCCTCAGAGTTTTCAGGGCTAACCCCCAGAATACTGGTAGGGGCCAAGGCCATGCTCCCTTGGGAAAC
AGAAACAAGTGCCAGTCAGCACCTACCCCTTCCCCCAGGGGGTTGAATATGCAAAGCAGTTCCGCTGGGAA
CCCCATCCAATCAACTGCTGTACCCATGGGGGTAGTGGGGTACTGTAGACACCAAGAACCATTGCCACACCC
CGTTTAGTTACAGCTGAACCTCCTCCATCTTCAAATCAATCAGGCCCATCCATCCATGCCTCCCTCCTCCCCAC
CCACTCCAACAGTTCTCTTTCCCGAGTAAGGTGGTGGGGTGTGAAGTACCAAGTAACCTACAAGCCTCCTA
GTTCTGAAAAGTTGGAAGGGCATCATGACCTCTTGGCCTCTCCTTTGATTCTCAATCTTCCCCAAAGCATGGTT
TGGTGCCAGCCCTTACCTCCTTCCAGAGCCCAAGATCAATGCTCAAGTTTTGGAGGACATGATCACCATCCCC
ATGGTACTGATGCTTGGTGGATTTAGGGAGGGCATTGCTACCAAGCCTCTTCCCAACGCCCTGGGGACCGATC

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FIGURE 1764B

TTCTGTTTTGTTTTTCATTGTTTGACGTTTCCACTGCATGCCTTGACTTCCCCACCTCCTCCTCAAACAAGAGA
CTCCACTGCATGTTCCAAGACAGTATGGGGTGGTAAGATAAGGAAGGGAAGTGTGTGGATGTGGATGGTGGGGGC
ATGGACAAAGCTTGACACATCAAGTTATCAAGGCCTTGAGAGGAGGCTCTGTATGTCCTCAGGGGACTGACAACAT
CCTCCAGATTCCAGCCATAAACCAATAACTAGGCTGGACCCTTCCCACTACATAATAGGGCTCAGCCCAGGCAGC
CAGCTTTGGGCTGAGCTAACAGGACCAATGGATTAACTGGCATTTCAGTCCAAGGAAGCTCGAAGCAGGTTTAG
GACCAGGTCCCCCTTGAGAGGTGAGAGGGGCCTCTGTGGGTGCTGGGTACTCCAGAGGTGCCACTGGTGGGAAGGGT
CAGCGGAGCCCCAGCAGGAAGGGTGGGCCAGCCAGGCCATTCTTAGTCCCTGGGTGGGGAGGCAGGGAGCTAGG
GCAGGGACCAAATGAACAGAAAGTCTCAGCCCAGGATGGGGCTTCTTCAACAGGGCCCCCTGCCCTCCTGAAGCCT
CAGTCCTTACCTTGCCAGGTGCCGTTTTCTCTTCCGTGAAGGCCACTGCCAGGTCCCCAGTGCGCCCCCTAGTG
GCCATAGCCTGGTTAAAGTTCGCCAGTGCCTCCTTGTGCATAGACCTTCTTCTCCCACCCCTTCTGCCCTGGG
TCCCCGGCCATCCAGCGGGGCTGCCAGAGAACCCAGACCTGCCCTTACAGTAGTGTAGCGCCCCCTCCCTCTTT
CGGCTGGTGTAGAATAGCCAGTAGTGTAGTGCCTGTGCTTTTACGTGATGGCGGGTGGGCAGCGGGCGGGCGGGC
TCCGCGCAGCCGTCTGTCTTGATCTGCCCGCGGGCGGCCGTGTTGTGTTTTGTGCTGTGTCCACGCGCTAAGGC
GACCCCTCCCCCGTACTGACTTCTCCTATAAGCGCTTCTCTTCGCATAGTCACGTAGCTCCCACCCACCCCTCT
TCCTGTGTCTCAGCAAGTTTTATACTCTAATATTTATATGGCTTTTTTTCTTCGACAAAAAATAATAAACGT
TTCTTCTGAAAAGCTG

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FIGURE 1765

MGGSCAQRRRAGPRQVLFPLLLPLFYPTLCEPIRYSIPEELAKGSVVGNLAKDLGLSVLDVSARELRVSAEKLHF
SVDAQSGDLLVKDRIDREQICKERRRCELQLEAVVENPLNIFHVIVVIEDVNDHAPQFRKDEINLEISESVSLGM
GTILES AEDPDISMNSLSKYQLSPNEYFSLVEKDNDPGGKYPELV LQKTL DRETQSAHHLVLTALDGGDPPRSGT
AQIRILVIDANDNPPVFSQDVYRVSLREDVPPGTSILRVKATDQDEGINSEITYSFFGVADKAQHVFSLDYTTGN
ILTQQPLDFEEVERYTINIEAKDRGSLSTRCKVIVEVVDENDNSPEIIITSLSQIMEDSPPGVVVALFKTRDQD
SGENGEVRCSLSRGVPFKIHSSSNYYKLVTDEALDREQTPEYNVTIAATDRGKPPLSSSKTITLHITDVNDNAP
VFGQSAYLVHVPENNQPGASIAQVSASDPDFGLNGRVSYSLIASDLESRTLSSYVSVSAQSGVVFAQRAFDHEQL
RTFELTLQARDQGSPALSANVSLRVLVGDRNDNAPRVLYPALGPDGSALFDTVPRAAQPGYLVTKVVAVDADSGH
NAWLSYHV VQASEPGLFSLGLRTGEVRMVRA LGDKDSVRQRL LVAVRDGGQPPLSATATLHLVFADSLQEVLPDF
SDHPTPSDSQAEMQFYLVVALALISVLFLLAVILAIALRLRQSF SPTAGDCFESVLC SKSGPVGPPNYSEGTLPY
AYNFCVPGDQMNPEFNFFTSVDHCPATQDNLNKDSMLLASILTPSVEADKKILKQQAPPNTDWRFSQAQRPGTSG
SQNGDDTGTWPNNQFDTEMLQAMILASASEAADGSSTLGGGAGTMGLSARYGPQFTLQHVPDYRQNVYIPGSNAT
LTNAAGKRDGKAPAGGNGNKKKSGKKEKK

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FIGURE 1766A

ATGCTCCGCAAGGTGAGAAGCTGGACAGAAATCTGGCGGTGGGCTACCCTTTTGTTCTCTTTTACCACCTGGGT
TACGTTTGTGGGCAGATCCGCTACCCGGTCCAGAGGAGTCACAGGAAGGGACTTTTGTAGGGAATGTCGCTCAA
GATTTCTGCTGGATACGGACAGTCTGTCAGCTCGCAGGCTGCAGGTGCTGGAGAGGTGAACCAAAGACACTTC
CGTGTGGATTGAGACAGCGGAGCCCTGCTCATCAAGAACCCAATCGACCGAGAGGCACTGTGTGGGCTCAGTGCC
AGCTGCATCGTGCCCTGGAGTTTGTACCGAAGGTCCTTTGGAAATGTACCGAGCAGAGGTAGAGATCGTAGAT
GTGAATGATCACGCCCCCGTTTTCCGCGGCAGCAGCTGGACTTGGAATTTGGGAGGCAGCTCCTCCAGGACAG
CGTTTCCCGTTGGAAAAGGCTCAGGATGCAGATGTGGGGAGCAATTCGATTAGCAGCTATAGGCTGAGCTCCAAT
GAACACTTTGCACTGGATGTGAAGAAGCGCAGCGACGGCAGCCTGGTCCCAGAGCTGCTCCTGGAGAAGCCTTTG
GATCGAGAGAAGCAATCGGACTACCGCCTGGTGCTGACTGCTGTCGATGGAGGGAACCCGCCGAGATCTGGCACC
GCAGAGCTCCGGGTATCCGTGCTGGACGTAAACGACAACGCCCCAGCCTTCCAGCAATCCAGCTACAGGATTAGT
GTGTTGGAGAGCGCACCAGCGGGCATGGTGCTCATCCAGCTCAATGCCTCAGACCCGGACCTGGGTCCCAGTGGT
AACGTCACCTTTTATTTTCACTGGTCATACCCCTGATCGTGAAGAAACCTCTTTAGCCTGCACCCCACTACTGGA
AAGCTTACTCTTTTGGGGCCCTAGACTTTGAGAGTGAGAATTACTATGAATTTGATGTGCGGGCTCGCGATGGG
GGTTCCTCAGCCATGGAGCAACATTGCAGCCTTCGAGTGGATCTGCTGGACGTAAATGACAATGCCCCTTACATC
ACAGTGACCTCAGAGCTTGGAACCTCCCCGAGAGTGCAGAACCTGGCACTGTGGTGGCACTTATCAGTGTGCAG
GATCCAGACTCAGGGTCAAACGGAGATGTGAGCCTCCGCATTCTGACCCTTGCCATTTGCCCTCAAGTCTGCC
TTCAGGAACCAAGTTCTCCCTGGTGACTGCTGGACCCTTGATCGAGAGGCCAAATCTAGCTATGACATCATGGTC
ACTGCTTCTGATGCTGGGAACCTCCTCTCAGTACCCACAGAACTATTTTCTCAATATTTTCACTGTGAATGAT
AATCCACCCTCTTTCTTTTCAAGGTCACATGAGGTGTTTGTTCCTGAGAACAATCGCCAGGGGACCTGCTTTGC
TCCCTTGACGCTCTGACCCAGACTCTGGCTTGAATGCGCTTATCTCCTACTCACTCCTGGAGCCCAGGAATCGA
GATGTATCAGCTTCTCTTTTCACTCTCTGTAACCCCCAGACAGGAGCTGTTTATGCTACTCGATCCTTTGACTAT
GAGCAAACCCAGACACTGCAGTTTGGGTGACGGCCCGGATCGGGGCAACCCACCCCTTAGCAGCACTGTAAACA
GTTTCGTCTATTTGTGCTGGACCTCAATGACAATGCTCCAGCTGTGCTCCGTCTCGGGCCCGGCTGGTTCTCTTA
TGTCCTCCAAAGCACTGCCTCCATCAGTTGGTGCTGGCCACCTAATCACAAGGTGACTGCTGTGGACTTGGATTCA
GGTTACAATGCTTGGGTTTCTATCAGCTCCTGGAGGCCCGAGATCCAGCCTGTTTGCAGTCTCTCGATATGCT
GGGGAGGTGCGGACGGCTGTTCTATCCCAGCTGACCTCCACCACAGAAGCTGGTCATTGTGGTAAAGGATAGT
GGTAGTCCACCACTCTCTACCTCTGTTACTCTCTTAGTGCTCTTAGAGGAAGACACTCATCCAGTTGTCCAGAT
CTTCGAGAATCTTCAGCTCCAAGGGAAGGAGAATCTCGTCTAACCCTCTACTTGGCTGTGTCCCTAGTGGCAATT
TGCTTTGTCTCCTTTGGCTCATTGCTGGCACTACTCTCTAAGTGCTTTCGTGGGGCAGCCTGTGGAGTCACATGC
TTTCTGCTGGCACCTGTGCTGTCTCACCAGATCTCGAAGGAGGGAGGGGCTTCCCCCTTCCAATGGGATCCTC
CGAATCCAGCTAGGGTCAGATGACCCTATCAAGTTTGTGATGTGGGAGGCCACTCTCATGGCTGTACACCCCTTG
GCTTCTGCACCCACTCGGAGTGATAGCTTCATGATGGTGAAGTCACCCAGTGCACCTATGGCAGGGGAGCCTGTT
CGCCCAAGCTGCCCACCTCTGATCTTCTCTATGGGCTAGAGCAAGCCCGCCCAACACGGACTGGCGTTTCTCT
CAGGCCCAGAGACCCGGCACCAGCGCTCCCAAAATGGCGATGACACCGGCACCTGGCCCAACAACAGTTTGAC
ACAGAGATGCTGCAAGCCATGATCTTGGCGTCCGCCAGTGAAGCTGCTGATGGGAGCTCCACCCTGGGAGGGGGT
GCCGGCACCATGGGATTGAGCGCCCGCTACGGACCCCAAGTTACCCCTGCAGCACGTGCCCGACTACCGCCAGAAT
GTCTACATCCCAGGCAGCAATGCCACACTGACCAACGCAGCTGGCAAGCGGGATGGCAAGGCCCCAGCAGGTGGC
AATGGCAACAAGAAGAAGTCGGGCAAGAAGGAGAAGAAGTAACATGGAGGCCAGGCCAAGAGCCACAGGGCGGCC
TCTCCCCAACAGCCAGCTTCTCCTTACCTGCACCCAGGCCCTCAGAGTTTACAGGGCTAACCCCAAGAATACTGG
TAGGGGCCAAGGCCATGCTCCCTTGGGAAAACAGAAACAAGTGCCAGTCAGCACCTACCCCTTCCCCCCAGGG
GGTTGAATATGAAAAGCAGTTCCGCTGGGAACCCCCATCCAATCAACTGCTGTACCCATGGGGGTAGTGGGGTT
ACTGTAGACACCAAGAACCATTGTCACACCCCGTTTAGTTACAGCTGAACCTCCTCCATCTTCCAAATCAATCAG
GCCATCCATCCCATGCCTCCCTCCTCCCCACCCCACTCCAACAGTTCTCTTTCCCGAGTAAGGTGGTTGGGGT
GTTGAAGTACCAAGTAACCTACAAGCCTCCTAGTTCTGAAAAGTTGGAAGGGCATCATGACCTCTTGGCCTCTCC
TTTGATTCTCAATCTTCCCCCAAAGCATGGTTTGGTGCCAGCCCTTCACCTCCTTCCAGAGCCCAAGATCAATG
CTCAAGTTTGGAGGACATGATCACCATCCCCATGGTACTGATGCTTGTGGATTAGGGAGGGCATTTTGCTAC
CAAGCCTCTTCCCCAACGCCCTGGGGACAGTCTTCTGTTTGTGTTTTTTCATTGTTTGACGTTTCCACTGCATGCCT
TGACTTCCCCCACCTCCTCCTCAAACAAGAGACTCCACTGCATGTTCCAAGACAGTATGGGGTGGTAAGATAAGG

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FIGURE 1766B

AAGGGAAGTGTGTGGATGTGGATGGTGGGGGCATGGACAAAGCTTGACACATCAAGTTATCAAGGCCTTGAGGA
GGCTCTGTATGTCCTCAGGGGACTGACAACATCCTCCAGATTCCAGCCATAAACCAATAACTAGGCTGGACCCTT
CCCACTACATAATAGGGCTCAGCCCAGGCAGCCAGCTTTGGGCTGAGCTAACAGGACCAATGGATTAAACTGGCA
TTTCAGTCCAAGGAAGCTCGAAGCAGGTTTAGGACCAGGTCCCCCTTGAGAGGTCAGAGGGGCCCTCTGTGGGTGCT
GGGTACTCCAGAGGTGCCACTGGTGGAAGGGTCAGCGGAGCCCCAGCAGGAAGGGTGGGCCAGCCAGGCCATTCT
TAGTCCCTGGGTGGGGAGGCAGGGAGCTAGGGCAGGGACCAAATGAACAGAAAGTCTCAGCCCAGGATGGGGCT
TCTTCAACAGGGCCCCCTGCCCTCCTGAAGCCTCAGTCCTTCACCTTGCCAGGTGCCGTTTCTCTTCCGTGAAGGC
CACTGCCCAGGTCCCCAGTGCGCCCCCTAGTGCCCATAGCCTGGTTAAAGTTCCCCAGTGCCTCCTTGTGCATAG
ACCTTCTTCTCCCACCCCTTCTGCCCTGGGTCCCCGGCCATCCAGCGGGGCTGCCAGAGAACCCCAGACCTGC
CCTTACAGTAGTGTAGCGCCCCCTCCCTCTTTGCGCTGGTGTAGAATAGCCAGTAGTGTAGTGCGGTGTGCTTTT
ACGTGATGGCGGGTGGGCAGCGGGCGGCGGGCTCCGCGCAGCCGTCTGTCCTTGATCTGCCCGCGGCGGGCCGTG
TTGTGTTTTGTGCTGTGTCCACGCGCTAAGGCGACCCCTCCCCGTAAGTCTCTCTATAAGCGCTTCTCTT
CGCATAGTCACGTAGCTCCCACCCACCCTCTTCTGTGTCTCAGCAAGTTTATACTCTAATATTTATATGGC
TTTTTTTCTTCGACAAAAAATAATAAACGTTTCTTCTGAAAAGCTG

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FIGURE 1767

MLRKVRSWTEIWRWATLLFLFYHLGYVCGQIRYPVPEESQEGTFVGNVAQDFLLDTSLSARRLQVAGEVNQRHF
RVDLD SGALLIKNPIDREALCGLSASCIVPLEFVTEGPLEMYRAEVEIVDVNDHAPRFPRQQLDLEIGEAAAPPGQ
RFPLEKAQDADVGSNSISSYRLSSNEHFALDVKKRSDGSLVPELLLEKPLDREKQSDYRLVLTAVDGGNPPRSQT
AELRVSVLDVNDNAPAFQQSSYRISVLESAPAGMVLILQNASDPDLGPGSGNVTFYFSGHTPDRVRNLFSLHPTTG
KLTLGLPLDFESENYYEFDVRARDGGSPAMEQHCSLRVDLLDVNDNAPYITVTSELGTLPEAEPTVVALISVQ
DPDSGSNGDVSLRIPDHLPLFALKSAFRNQFSLVTAGPLDREAKSSYDIMVTASDAGNPPLSTHRTIFLNISDVND
NPPSFFQORSHEVFVPENNRPGDLLCSLAASDPDSGLNALISYSLLEPRNRDVSASSFISLNPQTGAVHATRSFDY
EQTQTLQFEVQARDRGNPPLSSTVTVRLFVLDLNDNAPAVLRPRARPGSLCPQALPPSVGAGHLITKVTAVDLDS
GYNAWVSYQLLEAPDPSLFAVSRYAGEVRTAVPIPADLPPQKLVIIVVKDSGSPPLSTSVTLLVSLEEDTHPVVPD
LRESSAPREGESRLTLYLAVSLVAICFVSFGSFVALLSKCLRGAACGVTCFPAGTCACLTRSRREGLPPSNGIL
RIQLGSDDPIKFVDVGGHSHGCTPLASAPTRSDSFMMVKSPSAPMAGEPVRPSCPPSDLLYGLEQAPPNTDWRFS
QAQRPGTSGSQNGDDTGTWPNNQFDTEMLQAMILASASEAADGSSTLGGGAGTMGLSARYGPQFTLQHVPDYRQN
VYIPGSNATLTNAAGKRDGKAPAGGNGNKKKSGKKEKK

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FIGURE 1768A

ATGGGGCCCAAGACACTCCCACAGCTCGCTGGGAAATGGCAAGTGCTGTGCATGTTGTCCTTGTGCTGCTGGGGC
TGGGTGTCTGGGCAGCTTCGTTACTCAGTGGTGGAGGAGTCTGAGCCGGGGACGCTGGTGGGGAATGTTGCTCAG
GATCTGGGCTTAAAGATGACAGATCTGTTGAGCCGGCGGCTGCAATTGGGCTCTGAGGAGAATGGGCGCTATTTT
TCCCTGAGCTTGATGAGTGGTGCCCTGGCAGTGAATCAAAAGATTGACCGAGAAAGCCTATGTGGAGCCAGCACC
AGCTGCCGTGCTGCCAGTGCAGGTGGTGACTGAACACCCCCCTGGAGCTAATCCGTGTAGAGGTAGAGATCCTGGAT
CTCAATGACAACCTCTCCTAGCTTTGCCACCCCTGAGCGAGAGATGCGCATCTCAGAATCAGCAGCATCTGGGGCA
CGATTCCCACTGGACAGTGGCCAGGATCCGGATGTGGGCACCAATACTGTGAGCTTTTACACTCTAAGCCCCAAC
AGCCACTTCTCTCTGAATGTGAAGACCCTAAAGATGGGAAGCCATTCCCAGAGCTGGTGCTAGAGCAGCAGCTG
GATCGTGAAGCCCAGGCAAGACATCAGCTGGTGCTTACTGCTGTGGATGGGGGGACCCAGCCCGCTCAGGGACC
ACCCCTTATCTCTGTCTCGTGCTGGACATCAATGATAATGCTCCAACCTTCCAATCCTCAGTTCTACGTGTGGGA
ATCCCAGAGAATGCACCCATTGGTACTCTGCTGCTCCGCCCTCAATGCCACTGATCCAGACGAGGGCACCAACGGC
CAACTAGACTATTCTTTTGGAGACCACACATCTGAGGCAGTGCAGAACCTCTTTGGCCTAGACCCTAGCAGTGGG
GCAATCCATGTGTTGGGTCCCATAGACTTTGAGGAGTCACGTTTCTATGAAATTCATGCAAGAGCCCGTGACCAG
GGACAGCCTGCCATGGAGGGCCACTGTGTGATTCAAGTGGATGTGGGGGATGTCAATGACAATGCCCCAGAGGTG
CTATTGGCCTCTTTGGCCAACCCGTGCTCTAGAGAGCACACCAGTGGGCACAGTAGTGGGGTTGTTTAATGTGCGA
GACCGGGACTCAGGTAGAAATGGTGAAGTGAGCCTTGATATCTCTCCGACCTGCCATTTTCAGATTAAGCCTTCT
GAGAACCCTACTCGCTGCTAACCAGCCAGCCTTTGACCGGGAGGCCACATCCCACTATATCATCGAGCTGCTG
GCCAGCGATGCTGGTTACCTTCCCTACACAAACATCTCACCATCAGGCTCAACATTTTCAGATGTCAATGACAAT
GCACCCCGCTTCAACCAGCAGCTTTACACTGCTTACATCCTAGAAAACCGGCCTCCGGGCTCCCTTCTTTGCACT
GTGGCTGCCTCAGATCCAGACACTGGGGATAATGCCCGCCTCACCTACTCCATTGTAGGAAATCAGGTTTCAGGGA
GCCCCAGCCTCCTCCTTTGTGTATGTCAACCCAGAGGATGGACGGATCTTTGCCAGCGTACCTTTGACTATGAA
TTGCTGCAGATGCTGCAGATTGTGGTGGGGGTTTCGAGACTCCGGCTCTCCCCATTGCATGCCAACACATCTCTG
CATGTGTTTGTCTTAGACGAGAATGATAATGCCCCAGCTGTGCTGCACCCACGGCCAGACTGGGAACACTCAGCC
CCCCAGCGTCTCCCTCGCTCTGCTCCTCCTGGCTCCTTGGTCAACCAAGGTGACAGCCGTGGATGCTGATGCAGGC
CACAATGCGTGGCTCTCCTACTCACTGTTGCCACAGTCCACAGCCCCAGGACTGTTCTCTGCTGTCTACACACACT
GGTGAGGTGCGCACAGCCCGGGCCTTACTGGAGGATGACTCTGACACCCAGCAGGTGGTGGTCTGGTGAGGGAC
AATGGTGACCCTTCACTCTCCTCCACAGCCACAGTGCTGCTGGTTCTGGAGGATGAGGACCCTGAGGAAATGCCC
AAATCCAGTGACTTCTCCTATACACCCTCCTGAGCGTTCAGACCTTACCCTTTACCTCATTGTGGCTCTAGCGACC
GTCAGTCTCTTATCCCTAGTCACCTTACCTTTCTGTGACGGAAGTGCCTTCAGGGAAACGCAGACGGGGACGGG
GGTGAGGGCAGTGCTGCAGGCGCCAGGACTCACCTCCCCGGACTTCTATAAGCAGTCCAGCCCCAACCTGCAG
GTGAGCTCGGACGGCACGCTCAAGTACATGGAGGTGACGCTGCGGCCACAGACTCGCAGAGCCACTGCTACAGG
ACGTGCTTTTACCGGCCTCGGACGGCAGTGACTTCACTTTTCTAAGACCCCTCAGCGTTTCAGCAGCCACAGCT
CTGGCGCTGGAGCCTGACGCCATCCGGTCCCCGCTCTAATACGCTGCGGGAGCGGAGCCAGCAAGCCCCGCCAAC
ACGGACTGGCGTTTCTCTCAGGCCCAGAGACCCGGCACCCAGCGGCTCCCAAATGGCGATGACACCGGCACCTGG
CCCAACAACCAGTTTGACACAGAGATGCTGCAAGCCATGATCTTGGCGTCCGCCAGTGAAGCTGCTGATGGGAGC
TCCACCCTGGGAGGGGGTGCCGGCACCATGGGATTGAGCGCCCGCTACGGACCCAGTTTACCCTGCAGCACGTG
CCGACTACCGCCAGAATGTCTACATCCCAGGCAGCAATGCCACACTGACCAACGCAGCTGGCAAGCGGGATGGC
AAGGCCCCAGCAGGTGGCAATGGCAACAAGAAGTCCGGCAAGAAGGAGAAGAAGTAACATGGAGGCCAGGCC
AAGAGCCACAGGGCGGCCTCTCCCCAACCCAGCCAGCTTCTCCTTACCTGCACCCAGGCCTCAGAGTTTACGGGC
TAACCCCCAGAATACTGGTAGGGGCCAAGGCCATGCTCCCTTGGGAAACAGAAACAAGTGCCCAAGTCAGCACCT
ACCCCTTCCCCCAGGGGGTTGAATATGCAAAAGCAGTTCCGCTGGGAACCCCCATCCAATCAACTGCTGTACC
CATGGGGGTAGTGGGGTTACTGTAGACACCAAGAACCATTGCCACACCCCGTTTAGTTACAGCTGAACTCCTCC
ATCTTCCAAATCAATCAGGCCCATCCATCCCATGCCTCCCTCCTCCCCACCCCACTCCAACAGTTTCTCTTCCC
GAGTAAGGTGGTTGGGGTGTGAAGTACCAAGTAACCTACAAGCCTCCTAGTTCTGAAAAGTTGGAAGGGCATCA
TGACCTCTTGGCCTCTCCTTTGATTCTCAATCTTCCCCAAAGCATGGTTTGGTGCCAGCCCTTACCTCCTTC
CAGAGCCCAAGATCAATGCTCAAGTTTTGGAGGACATGATCACCATCCCCATGGTACTGATGCTTGGTGGATTTA
GGGAGGGCATTTTGCTACCAAGCCTCTTCCCAACGCCCTGGGGACCAGTCTTCTGTTTTGTTTTTATTGTTTGA
CGTTTCCACTGCATGCCTTGACTTCCCCACCTCCTCCTCAAACAAGAGACTCCACTGCATGTTCCAAGACAGTA

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FIGURE 1768B

TGGGGTGGTAAGATAAGGAAGGGAAGTGTGTGGATGTGGATGGTGGGGGCATGGACAAAGCTTGACACATCAAGT
TATCAAGGCCCTTGGAGGAGGCTCTGTATGTCCTCAGGGGACTGACAACATCCTCCAGATTCCAGCCATAAACC
TAACTAGGCTGGACCCTTCCCACTACATAATAGGGCTCAGCCCAGGCAGCCAGCTTTGGGCTGAGCTAACAGGAC
CAATGGATTAAACTGGCATTTCAGTCCAAGGAAGCTCGAAGCAGGTTTAGGACCAGGTCCCCTTGAGAGGTCAGA
GGGGCCTCTGTGGGTGCTGGGTACTCCAGAGGTGCCACTGGTGGAAAGGGTCAGCGGAGCCCCAGCAGGAAGGGTG
GGCCAGCCAGGCCATTCTTAGTCCCTGGGTGGGGAGGCAGGGAGCTAGGGCAGGGACCAAATGAACAGAAAGTC
TCAGCCCAGGATGGGGCTTCTTCAACAGGGCCCCCTGCCCTCCTGAAGCCTCAGTCCTTACCTTGCCAGGTGCCG
TTTCTCTTCCGTGAAGGCCACTGCCCAGGTCCCCAGTGCGCCCCCTAGTGGCCATAGCCTGGTTAAAGTTCCCCA
GTGCCTCCTTGTGCATAGACCTTCTTCTCCCACCCCCTTCTGCCCCCTGGGTCCCCGGCCATCCAGCGGGGCTGCC
AGAGAACCCCAGACCTGCCCTTACAGTAGTGTAGCGCCCCCTCCCTCTTTCGGCTGGTGTAGAATAGCCAGTAGT
GTAGTGCGGTGTGCTTTTACGTGATGGCGGGTGGGCAGCGGGCGGCGGGCTCCGCGCAGCCGTCTGTCTTGATC
TGCCCGCGGCGGGCCGTTGTGTGTTTTGTGCTGTGTCCACGCGCTAAGGCGACCCCTCCCCCGTACTGACTTCT
CCTATAAGCGCTTCTCTTCGCATAGTCACGTAGCTCCCACCCACCCCTCTTCCTGTGTCTCAGCAAGTTTTATA
CTCTAATATTTATATGGCTTTTTTTCTTCGACAAAAAATAATAAACGTTTCTTCTGAAAAGCTG

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FIGURE 1769

MGPKTLPQLAGKWQVLCMLSLCCGWVSGQLRYSVVEESEPGTLVGNVAQDLGLKMTDLLSRRLQLGSEENGRYF
SLSLMSGALAVNQKIDRESLCGASTSCLLPVQVVTEHPLELIRVEVEILDNDNSPSFATPEREMRISESAASGA
RFPLDSAQDPDVGINTVVSFYTLSPNSHFSLNVKTLKDGKPFPELVLEQQLDREAQARHQLVLTAVDGGTPARSGT
TLISVIVLDINDNAPTTFQSSVLRVGIPENAPIGTLLRLRNATDPDEGTNGQLDYSFGDHTSEAVRNLFGLDPSSG
AIHVLGPIDFEESRFYEIHARARDQGPAMEGHCVIQVDVGDVNDNAPEVLLASLANPVLESTPVGTVVGLFNVR
DRDSGRNGEVSLDISPDLPFQIKPSENHYSLLTSQPLDREATSHYIIELLASDAGSPSLHKHLTIRLNISDVNDN
APRFNQQLYTAYILENRPPGSLCTVAASDPDTGDNARLTYSIVGNQVQGAPASSFVYVNPEDGRIFAQRTFDYE
LLQMLQIVVGVRDSGSPPLHANTSLHVFVLDENDNAPAVLHPRPDWEHSAPQRLPRSAPPGSLVTKVTAVDADAG
HNAWLSYSLLPQSTAPGLFLVSTHTGEVRTARALLEDDSDTQQVVVLVRDNGDPSSLSTATVLLVLEDEDPEEMP
KSSDFLIHPPERSDLTLYLIVALATVSLLSLVTFITFLSAKCLQGNADGDGGGGQCCRRQDSPSPDFYKQSSPNLQ
VSSDGLTKYMEVTLRPTDSQSHCYRTCFS PASDGSDFITFLRPLSVQOPTALALEPDAIRSRNTLRERSQQAPPN
TDWRFSQAQRPGTSGSQNGDDTGTWPNNQFDTEMLQAMILASASEAADGSSTLGGGAGTMGLSARYGPQFTLQHV
PDYRQNVYIPGSNATLTNAAGKRDGKAPAGNGNKKKSGKKEKK

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FIGURE 1770A

TTCATCTGTACCTTTCAAGTATTCAAATAGAAAAATATAACAATGTAAATAAAATAGCAAAACAATGTAATATC
TCATAAAACTGCAATGGTAAAAGCATTATCCTATTGAAATTCCACAATTTTTATTGAAAATATTATCGACATG
TAATTCAAGTGGCATTTAGAAGAATAATTTAAAAGCAACAACCTCTATAGAAAGCTTGTAATGATTAAGTAGTT
TAAACCAAATAAAACAATTTCTGAGTCAGTCATCTCCAGTAGGTCTATTTTAGTCTCAAGATAAATTCATTTCTG
GTGACAACCTGAAGTTCTTAGTTATTTGTTAGTATATATTGGAGACATTTACAATAAAGCTTAGAGCACAATGGGA
AATGAAAGTATCATGTTTTTTTTTAAGACCAAATGTATTGCAGAAATGTGAGTAATTTAATCCGATGCTACAATCT
GATCATTCTGATCTAATCTGATCATTTAATAACACTAAATAAAACCTTCATCTCACATTCTTTGGCTGTTTCTTT
TAAAATATGGGTTTACGGATAAATCAAATAAATTCAAAACAAAGTAATAAGCAAATGATTTTTTTTTTCTCAGTAA
TCTAGTAGAGTATTACATTTAGAAGTAATCTGTATCTCAGTGCAGTAACATTTAGGACTGTAAGCGCCGCTGTT
CACCTACTGGAAGACAAATGCAACCGAAAACACTCAGATCTCACACCTCACGAAGACCCGCAGATGCCACAACT
AACTGCTGGACTGCAGCGAAACCCGACCCCTGTTTGGAGGCACTCCAGGTTTCCGGAGGATTGTCTCTCCATAG
CTGCGGCAAGAACTAAATAAGACCCATTTATGCACAGTGAAGATTCTGAGAGGATTCTGCAGCAAAACAACAT
GGCCGCTCCACAGAGTCGCCCCAGACGCGCGAGCTGATCCTGCTGTGCGCGCTGCTGGGAACGCTGTGGGAAAT
CGGGAGGGGACAGATTGCTACTCTGTGCCAGAAGAGACGGACAAAGGCTCCTTCGTGGGTAATATCTCCAAGGA
CCTGGGGCTGGACCCCGGAAGCTGGCGAAGCACGGAGTCCGTATCGTCTCCAGAGGTAGGACGCAGCTCTTTGC
TCTGAACCCGCGCAGCGGCAGCTTGATCACCGCGGGCAGGATAGATCGGGAGGAGCTCTGCGCTCAGAGCCCGCG
GTGTCTGATAAATATTAACACCCTGGTTGAGGATAAAGGAAAACCTCTTTGGGGTAGAAATAGAAATAATTGATAT
TAACGATAATAACCCAAAATTCAGGTGGAAGATCTAGAAGTAAAAATTAACGAAATCGCGGTTCTGGAGCACG
TTATCCACTCCCAGAAGCTGTTGACCCGGATGTGGGCGTGAACCTCCCTCCAGAGCTACCAGCTCAGCCCCAATCA
CCACTTCTCCCTGGACGTGCAGACTGGAGACAATGGAGCCATAAACCAGAGCTGGTGTGGAGCGCGCCCTGGA
CAGGGAGGAAGAGGCTGCTCACACCTGGTCCTCACGGCCTCGGATGGCGGCAAGCCGCTCGCTCTAGCACAGT
GCGCATCCACGTGACAGTGTGGATACAAATGACAATGCCCCGGTTTTTCTCACCCGATTACCGAGTGAAAGT
CCTTGAGAACATGCCCCAGGCACGCGGCTGCTTACTGTAACAGCCAGCGACCCGGATGAGGGAATCAACGGAAA
AGTGGCATACAAATTCGGGAAAATTAATGAAAAACAACTCCGTTATTCCAGCTTAATGAAAATACTGGGGAAAT
ATCAATAGCAAAAAGTCTAGATTATGAAGAATGTTCAATTTTATGAAATGGAAATACAAGCCGAAGATGTGGGGGC
ACTTCTGGGGAGGACCAAATGCTCATTTCGGTGAAGATGTAAATGACAATAGACCAGAAGTGATCATTACGTC
TTTGTTTAGCCAGTGTTAGAAAATTCTCTTCCCGGACAGTAATTGCCTTCTTGAGTGTGCATGACCAAGACTC
TGGAAGAATGGTCAAGTTGTCTGTTACACACGTGATAATTTACCTTTTAAATTAGAAAAGTCAATAGGTAATTA
TTATAGATTAGTGACAAGGAAATATTTGGACCGAGAAAATGTCTCTATCTACAATATCACAGTGATGGCCTCAGA
TCTAGGAACACCACCTCTGTCCACTGAAACTCAAATCGCTCTGCACGTGGCAGACATTAACGACAACCCTCCTAC
TTTCCCTCATGCCTCCTACTCAGCGTATATCCTAGAGAACAACCTGAGAGGAGCCTCCATCTTTTCTTGACTGC
ACACGACCCCGACAGCCAGGAGAATGCCAGGTCACTTACTCTGTGACCGAGGACACGCTGCAGGGGGCGCCCT
GTCTCTGATATCTCCATCAACTCTGACACCGGTGTCTGTATGCGCTGCAATCTTTCGACTATGAGCAGATCCG
AGACCTGCAGCTACTGGTAACAGCCAGCGACAGCGGGGACCCGCCCTCAGCAGCAACATGTCACTGAGCCTGTT
CGTGCTGGACCAGAATGACAACGCGCCGAGATCCTGTACCCCGCCCTCCCCACAGACGGTTCCACTGGCGTGGA
GCTGGCGCCCCGCTCCGCAGAGCGTGGCTACCTGGTGACCAAGGTGGTGGCGGTGGACAGAGACTCGGGCCAGAA
CGCCTGGCTGTCTACCGCCTGCTCAAGGCCAGCGAGCCGGGACTCTTCTCGGTGGGTCTGCACACGGGCGAGGT
GCGCACGGCGCGAGCCCTGCTGGACAGAGATGCGCTCAAGCAGAGCCTCGTGGTGGCCGCTCCAGGACCATGGCCA
GCCCCCTCTCTCCGCCACTGTACGCTCACCGTAGCCGTGGCTGACAGCATCCCCGAAGTCTTGACCGAGTTGGG
CAGTCTGAAGCCTTCGGTCGACCCGAACGATTGAGCCTTACACTCTATCTCGTGGTGGCAGTGGCTGCCATCTC
CTGTGTCTTCTCGCCTTTGTGCTGTGCTTCTGGGGCTCAGGCTGAGGCGCTGGCACAAGTCACGCCTGCTCCA
GGATTCCGGTGGCAGATTGGTAGGCGTGCCTGCCTCACATTTTGTGGGTGTTGAGGAGGTACAGGCTTTCTGCA
GACCTATTCCCAGGAAGTCTCCCTCACCGCCGACTCGCGGAAGAGTCACCTGATCTTCCCCAGCCCACTACGC
AGACATGCTCATCAGTCAGGAGGGCTGTGAGAAAAATGATTCTTTGTTAACATCCGTAGATTTTCATGAATATAA
GAATGAAGCTGATCATGGTCAGCAAGCCCCGCCAACACGGACTGGCGTTTCTCTCAGGCCAGAGACCCGGCAC
CAGCGGCTCCCAAAATGGCGATGACACCGGCACCTGGCCCAACAACAGTTTGACACAGAGATGCTGCAAGCCAT
GATCTTGGCGTCCGCCAGTGAAGCTGCTGATGGGAGCTCCACCTGGGAGGGGGTGCCGGCACCATGGGATTGAG
CGCCCGCTACGGACCCAGTTCACCTGCAGCACGTGCCCCACTACCGCCAGAATGTCTACATCCCAGGCAGCAA

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FIGURE 1770B

TGCCCACTGACCAACGCAGCTGGCAAGCGGGATGGCAAGGCCCCAGCAGGTGGCAATGGCAACAAGAAGAAGTC
GGGCAAGAAGGAGAAGAAGTAACATGGAGGCCAGGCCAAGAGCCACAGGGCGGCCTCTCCCCAACCCAGCCCAGCT
TCTCCTTACCTGCACCCAGGCCTCAGAGTTTCAGGGCTAACCCCCAGAATACTGGTAGGGGGCCAAGGCCATGCTC
CCCTTGGGAAACAGAAACAAGTGCCAGTCAGCACCTACCCCTTCCCCCCCAGGGGGTTGAATATGCAAAAGCAG
TTCCGCTGGGAACCCCCATCCAATCAACTGCTGTACCCATGGGGGTAGTGGGGTTACTGTAGACACCAAGAACCA
TTTGCCACACCCCGTTTAGTTACAGCTGAACCTCCTCCATCTTCCAAATCAATCAGGCCCCATCCATCCCATGCCTC
CCTCCTCCCCACCCACTCCAACAGTTCCTCTTTCCCGAGTAAGGTGGTTGGGGTGTGAAGTACCAAGTAACCT
ACAAGCCTCCTAGTTTCTGAAAAGTTGGAAGGGCATCATGACCTCTTGGCCTCTCCTTTGATTCTCAATCTTCCCC
CAAAGCATGGTTTGGTGCCAGCCCTTCACCTCCTTCAGAGCCCCAAGATCAATGCTCAAGTTTTGGAGGACATG
ATCACCATCCCCATGGTACTGATGCTTGCTGGATTTAGGGAGGGCATTGCTACCAAGCCTCTTCCCAACGCCC
TGGGGACCAGTCTTCTGTTTTGTTTTTCATTGTTTGACGTTTCCACTGCATGCCTTGACTTCCCCCACCTCCTCC
TCAAACAAGAGACTCCACTGCATGTTCCAAGACAGTATGGGGTGGTAAGATAAGGAAGGGAAGTGTGTGGATGTG
GATGGTGGGGGCATGGACAAAGCTTGACACATCAAGTTATCAAGGCCCTTGAGGAGGCTCTGTATGTCCTCAGGG
GACTGACAACATCCTCCAGATTCCAGCCATAAACCAATAACTAGGCTGGACCTTCCCACTACATAATAGGGCTC
AGCCCAGGCAGCCAGCTTTGGGCTGAGCTAACAGGACCAATGGATTAACTGGCATTTCAGTCCAAGGAAGCTCG
AAGCAGGTTTAGGACCAGGTCCCCTTGAGAGGTGAGAGGGGCTCTGTGGGTGCTGGGTACTCCAGAGGTGCCAC
TGGTGGAAGGGTCAGCGGAGCCCCAGCAGGAAGGGTGGGCCAGCCAGGCCATTCTTAGTCCCTGGGTGGGGAGG
CAGGGAGCTAGGGCAGGGACCAAATGAACAGAAAGTCTCAGCCCAGGATGGGGCTTCTTCAACAGGGCCCCCTGCC
CTCCTGAAGCCTCAGTCCTTACCTTGCCAGGTGCCGTTTCTCTTCCGTGAAGGCCACTGCCCAGGTCCCCAGTG
CGCCCCCTAGTGGCCATAGCCTGGTTAAAGTTCCCCAGTGCTCCTTGTGCATAGACCTTCTTCTCCCACCCCT
TCTGCCCCCTGGGTCCCCGGCCATCCAGCGGGCTGCCAGAGAACCCAGACCTGCCCTTACAGTAGTGTAGCGCC
CCCTCCCTCTTTCGGCTGGTGTAGAATAGCCAGTAGTGTAGTGCAGGTGTGCTTTTACGTGATGGCGGGTGGGCAG
CGGGCGGCGGGCTCCGCGCAGCCGTCTGTCCTTGATCTGCCGCGGCGGCCCGTGTGTGTTTTGTGCTGTGTCC
ACGCGCTAAGGCGACCCCTCCCCCGTACTGACTTCTCCTATAAGCGCTTCTCTTCGCATAGTCACGTAGCTCCC
ACCCACCCCTCTTCTGTGTCTCACGCAAGTTTTATACTCTAATATTTATATGGCTTTTTTTCTTCGACAAAAAA
ATAATAAAACGTTTCTTCTGAAAAGCTG

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FIGURE 1771

MAAPQSRPRRGELIILLCALLGTLWEIGRGQIRYSVPEETDKGSFVGNISKDLGLDPRKLAKHGVRIVSRGRTQLF
ALNPRSGSLITAGRIDREELCAQSPRCLININTLVEDKGKLFGEIEIIDINDNNPKFQVEDLEVKINEIAVPGA
RYPLPEAVDPDVGVSLSQSYQLSPNHHFSLDVQTDNGAINPELVLERALDREEEAAHHLVLTASDGGKPPRSST
VRIHVTVLDTNDNAPVFFPHPIYRVKVLENMPPGTRLLTVTASDPDEGINGKVAYKFRKINEKQTPLFQLNENTGE
ISIAKSLDYEECSFYEMEIQAEVDGALLGRTKLLISVEDVNDNRPEVITSLFSPVLENSLPGTVIAFLSVHDQD
SGKNGQVVCYTRDNLPPFKLEKSIGNYYRLVTRKYLDRENVSIYNITVMASDLGTPPLSTETQIALHVADINDNPP
TFPHASYSAYILENNLRGASIFSLTAHDPDSQENAQVTYSVTEDTLQGAPLSSYISINSDTGVLALQSFQDYEQI
RDLQLLVTASDSGDPPLSSNMSLSLFLVDQNDNAPEILYPALPTDGSTGVELAPRSAERGYLVTKVAVDRDSGQ
NAWLSYRLLKASEPGLFSVGLHTGEVRTARALLDRDALKQSLVAVQDHGQPPLSATVTLTVAVADSIPEVLTEL
GSLKPSVDPNDSSLTLYLVVAVAAISCVFLAFVAVLLGLRLRRWHKSRLQLQDSGGRLVGVPASHFVGVEEVQAFL
QTYSQEVSLTADSRKSHLIFPQPNYADMLISQEGCEKNDSLLTSVDFHEYKNEADHGQQAPPNTDWRFSQAQRPG
TSGSQNGDDTGTWPNNQFDTEMLQAMILASASEAADGSSTLGGGAGTMGLSARYGPQFTLQHVDPYRQNVYIPGS
NATLTNAAGKRDGKAPAGNGNKKKSGKKEKK

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FIGURE 1772A

AGAATGGGCTCTAGGCGCCGCTGCTCACCAATCAGGGAATGGGAAGCTGCGCGCCATTGAGTCCCTCCCTCCCC
GCCTCTACCACACAAAGCGGAATGAGATGGATACTCACAGATCCTGACACTGGAGACTTAGAAGTATTTTCCTTC
GCTTCTGATATATTTTGGATGTAGTCGGCCTAGGACTTCATAGATACATAAGCCGATTACACAACCAACCAGCTC
GAGAAACCGCGGAATATCGGCTTAGAGCCTGCCATGGCGAATCGGCTACAGCGCGGGGACCGCAGTCGGCTGCTG
CTGCTGCTGTGCATTTTCTGGGGACGCTGCGGGGGTTCCGGGCCAGGCAGATCCGATATTCGGTGCCAGAAGAG
ACCGAAAAGGGCTCCTTCGTGGGCAATATCTCCAAGGACCTGGGGCTGGAGCCCCGGGAGCTGGCGAAGCGCGGA
GTCCGCATCGTCTCCAGAGGGAAGACACAGCTTTTCGCTGTGAATCCGCGAAGCGGCAGCTTGATCACGGCAGGC
AGGATAGACCGGGAGGAGCTCTGTGAGACGGTGTCTCTGTTTTTAAATATGGAACCTCTCGTGGAAGACACC
TTGAAGATTTACGGAGTGGAGGTGGAAATAATAGATATTAATGATAACGCCCCAGCTTCAGGAGGACGAAGTG
GAGATAAAAGTCAGTGAGCACGCAATTCCTGGGGCGCGATTGCTCTTCCTAATGCTAGGGATCCAGATGTGGGC
GTGAACTCCCTCCAGAGCTACCAGCTCAGCCCTAATAATTACTTTTCTTGCAACTGCGGGGCAGAACGGATGGG
GCCAAGAATCCAGAGCTAGTACTGGAGGGAAGCCTGGACCGAGAGAAAGAGGCTGCTCACCTGCTCCTCTCACA
GCTTTAGATGGAGGCGATCCCATCCGAAAGGGCGCAGTTCCCATTCGTGTGGTGGTCTCTCGATGTAAATGATCAC
ATCCCAATGTTTACACAGTCCGTATATCGCGTGAGTGTTCCAGAAAACATCAGCTCCGGAACCTCGGGTGCTGATG
GTTAATGCAACGGATCCAGACGAGGGAATCAACGGGGAAGTAATGTATTTCATTTCGGAACATGGAAGCAAGGCT
TCTGAAATATTCCAATTGGATTACAAACTGGAGAAGTTCAAGTACGGGGTCTCTGGATTTTGAAAAATATAGA
TTCTATGAGATGGAATTCAGGCCAAGATGGTGGAGTCTCTTTACCACCACGACGATGTTGATCACTGTTGTG
GATGTGAATGATAACGCTCCAGAAATAACTATCACCTCTTCTATTAAATTCAATTCTGGAACCTCTCTCCAGGT
ACAGTGATTGCTCTTCTAAATGTGCAAGATCAAGATTCTGGAGAAAATGGTCAAGTCTCCTGTTTTATTCTAAC
CACCTGCCTTTTAAATTAGAAAAGACTTATGAAATTATTACAAATTGATAACAAGCAGAGTGCTGGACAGGGAG
TTGGTCCAGAGCTACAATATAACGTTGACAGCCACAGACCAGGGAAGCCCGCCTTTGTCTGCAGAACTCATGTC
TGGCTGAATGTGGCAGATGACAACGATAACCCTCCCGTTTTTCTCTACTCCTCTTACTCTGCCTACATTCCCGAA
AACAAACCCAGGGGTGCCTCCATCTTCTCAGTGACCGCCCTCGACCCGGACAGCAAACAGAATGCCCTGGTCACT
TACTCTCTGACGGATGACACTGTCCAGGGGTGCCTCTGTCTCCTATGTCTCTATTAACCTCCAACACTGGTGT
CTCTATGCCCTACAATCCTTCGACTATGAGCAGTTTCGAGACTTAGAACTGAGAGTGATAGCACGTGACAGCGGG
GACCCGCCCTCAGCAGCAACGTGTGCTGAGCCTGTTCTGTCTGGACCAGAACGACAATGCGCCCGAGATCCTG
TACCCTGCCCTCCCCACAGACGGCTCCACTGGCGTGGAGCTGGCGCCCCGCTCTGCGGAACCTGGCTACCTGGTG
ACCAAGGTGGTTGCGGTGGACAAAGATTCAGGCCAGAACGCTGGCTGTCTATCGCTGCTTAAGGCCAGCGAG
CCGGGACTCTTCGCGGTGGGGGAGCACACGGGCGAGCAAGCCCCGCCAACACGGAAGTGGCGTTTCTCTCAGGCC
CAGAGACCCGGCACCAGCGCTCCCAAAATGGCGATGACACGGGCACCTGGCCCAACAACAGTTTGACACAGAG
ATGCTGCAAGCCATGATCTTGGCGTCCGCCAGTGAAGCTGCTGATGGGAGCTCCACCCTGGGAGGGGGTGCCGGC
ACCATGGGATTGAGCGCCCGCTACGGACCCCAAGTTACCCCTGCAGCACGTGCCCGACTACCGCCAGAATGTCTAC
ATCCCAGGCAGCAATGCCACACTGACCAACGCAGCTGGCAAGCGGGATGGCAAGGCCCCAGCAGGTGGCAATGGC
AACAGAAGAAGTCGGGCAAGAAGGAGAAGAAGTAACATGGAGGCCAGGCCAAGAGCCACAGGGCGGCCTCTCCC
CAACCAGCCCAGCTTCTCCTTACCTGCACCCAGGCCTCAGAGTTTTCAGGGCTAACCCCCAGAATACTGGTAGGGG
CCAAGGCCATGCTCCCCCTTGGGAAACAGAAACAAGTGCCAGTCAGCACCTACCCCTTCCCCCCCCAGGGGGTTGA
ATATGCAAAAGCAGTTCCGCTGGGAACCCCCATCCAATCAACTGCTGTACCCATGGGGGTAGTGGGGTTACTGTA
GACACCAAGAACCATTGTCACACCCCCGTTTAGTTACAGCTGAACTCCTCCATCTTCCAAATCAATCAGGCCAT
CCATCCCATGCCTCCCTCCTCCCCACCCACTCCAACAGTTCTCTTTCCCGAGTAAGGTGGTTGGGGTTGTTGAA
GTACCAAGTAACCTACAAGCCTCCTAGTTCTGAAAAGTTGGAAGGGCATCATGACCTCTTGCCCTCTCCTTTGAT
TCTCAATCTTCCCCCAAAGCATGGTTTGGTGCCAGCCCTTACCTCCTTCCAGAGCCCAAGATCAATGCTCAAG
TTTTGGAGGACATGATCACCATCCCCATGGTACTGATGCTTGCTGGATTTAGGGAGGGCATTTTGCTACCAAGCC
TCTTCCCAACGCCCTGGGGACAGTCTTCTGTTTTGTTTTTATTGTTTGACGTTTCCACTGCATGCCTTGACTT
CCCCACCTCCTCCTCAAACAAGAGACTCCACTGCATGTTCCAAGACAGTATGGGGTGGAAGATAAGGAAGGGA
AGTGTGTGGATGTGGATGGTGGGGGCATGGACAAAGCTTGACACATCAAGTTATCAAGGCCTTGAGAGGGCTCT
GTATGTCTCAGGGGACTGACAACATCCTCCAGATTCCAGCCATAAACCAATAACTAGGCTGGACCCCTTCCACT
ACATAATAGGGCTCAGCCCAGGCAGCCAGCTTTGGGCTGAGCTAACAGGACCAATGGATTAACTGGCATTTCAG
TCCAAGGAAGCTCGAAGCAGGTTTAGGACCAGGTCCCCTTGAGAGGTGAGAGGGCCTCTGTGGGTGCTGGGTAC

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FIGURE 1772B

TCCAGAGGTGCCACTGGTGGGAAGGGTCAGCGGAGCCCCAGCAGGAAGGGTGGGCCAGCCAGGCCATTCTTAGTCC
CTGGGTTGGGGAGGCAGGGAGCTAGGGCAGGGACCAAATGAACAGAAAGTCTCAGCCCAGGATGGGGCTTCTTCA
ACAGGGCCCCCTGCCCTCCTGAAGCCTCAGTCCTTACCTTGCCAGGTGCCGTTTCTCTTCCGTGAAGGCCACTGC
CCAGGTCCCCAGTGCGCCCCCTAGTGGCCATAGCCTGGTTAAAGTTCCCCAGTGCCTCCTTGTGCATAGACCTTC
TTCTCCACCCCCCTTCTGCCCCCTGGGTCCCCGGCCATCCAGCGGGGCTGCCAGAGAACCCAGACCTGCCCTTAC
AGTAGTGTAGCGCCCCCTCCCTCTTTTCGGCTGGTGTAGAATAGCCAGTAGTGTAGTGCGGTGTGCTTTTACGTGA
TGGCGGGTGGGCAGCGGGCGGCGGGCTCCGCGCAGCCGTCTGTCTTGATCTGCCCGCGGCGGCCCGTGTGTGT
TTTGTGCTGTGTCCACGCGCTAAGGCGACCCCTCCCCGTAAGTCTTCTCCTATAAGCGCTTCTCTTCGCATA
GTCACGTAGCTCCCACCCACCTCTTCTGTGTCTCAGCAAGTTTTATACTCTAATATTTATATGGCTTTTTT
TCTTCGACAAAAAATAATAAACGTTTCTTCTGAAAAGCTG

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FIGURE 1773

MANRLQRGDRSRLLLLLCIFLGTLRGFRARQIRYSVPEETEKGSFVGNISKDLGLEPRELAKRGVRIVSRGKTQL
FAVNPRSGSLITAGRIDREELCETVSSCFLNMELLVEDTLKIYGVEVEIIDINDNAPSFQEDEVEIKVSEHAIPG
ARFALPNARDPDVGVNLSQSYQLSPNNYFSLQLRGRTDGAKNPELVLEGLDREKEAAHLLLLTALDGGDP IRKG
AVPIRVVLDVNDHIPMFTQSVYRVSPENISSGTRVLMVNATDPDEGINGEVMYSFRNMESKASEIFQLDSQTG
EVQVRGSLDFEKYRFYEMEIQQQDGGGLFTTTTMLITVVDVNDNAPEITITSSINSILENSPPGTVIALLNVDQDQ
DSGENGVSCFIPNHLFPKLEKTYGNYYKLITSRVLDRELVSYNITLTATDQSPPLSAETHVWLNVDNDNP
PVFPHSSYSAYIPENNPRGASIFSVTALDPDSKQNALVTYSLTDDTVQGVPLSSYVSINSNTGVLYALQSFDYEQ
FRDLELRVIARDSGDPPLSSNVLSLFLVDQNDNAPEILYPALPTDGSTGVELAPRSAEPGYLVTKVVAVDKDSG
QNAWLSYRLKASEPGLFAVGEHTGEQAPPNTDWRFSQAQRPGTSGSQNGDDTGTWPNNQFDTEMLQAMILASAS
EAADGSSTLGGGAGTMGLSARYGPQFTLQHVDPYRQNVYIPGSNATLTNAAGKRDGKAPAGNGNKKKSGKKEKK

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FIGURE 1774

CAGAAAGCCATGTCGGACTCGGCGCCAGCGCCCAAGCGCTAACCCGCTGAAAGTTTCTCAGCGAAATCTCAGGG
ACGATCTGGACCCCGCTGAGAGGAACTGCTTTTGAGTGAGATGGTCCCAGAGGCCTGGAGGAGCGGACTGCAAGC
CCCGCCCAACACGGACTGGCGTTTCTCTCAGGCCCAGAGACCCGGCACCAGCGGCTCCCAAATGGCGATGACAC
CGGCACCTGGCCCAACAACCAGTTTGACACAGAGATGCTGCAAGCCATGATCTTGGCGTCCGCCAGTGAAGCTGC
TGATGGGAGCTCCACCCTGGGAGGGGGTGCCGGCACCATGGGATTGAGCGCCCGCTACGGACCCAGTTTACCCT
GCAGCACGTGCCCGACTACCGCCAGAATGTCTACATCCCAGGCAGCAATGCCACACTGACCAACGCAGCTGGCAA
GCGGGATGGCAAGGCCCCAGCAGGTGGCAATGGCAACAAGAAGAAGTCGGGCAAGAAGGAGAAGAAGTAACATGG
AGGCCAGGCCAAGAGCCACAGGGCGGCCTCTCCCCAACAGCCAGCTTCTCCTTACCTGCACCCAGGCCTCAGA
GTTTCAGGGCTAACCCCCAGAATACTGGTAGGGGCCAAGGCCATGCTCCCCTTGGGAAACAGAAACAAGTGCCCA
GTCAGCACCTACCCCTTCCCCCCCAGGGGGTTGAATATGCAAAAGCAGTTCCGCTGGGAACCCCATCCAATCAA
CTGCTGTACCCATGGGGGTAGTGGGGTTACTGTAGACACCAAGAACCATTGTCACACCCCGTTTAGTTACAGCT
GAACTCCTCCATCTTCCAAATCAATCAGGCCCATCCATCCCATGCCTCCCTCCTCCCCACCCCACTCCAACAGTT
CCTCTTTCCCGAGTAAGGTGGTTGGGGTGTGTAAGTACCAAGTAACCTACAAGCCTCCTAGTTCTGAAAAGTTGG
AAGGGCATCATGACCTCTTGGCCTCTCCTTTGATTCTCAATCTTCCCCAAAGCATGGTTTGGTGCCAGCCCCCTT
CACCTCCTTCCAGAGCCCAAGATCAATGCTCAAGTTTTGGAGGACATGATCACCATCCCCATGGTACTGATGCTT
GCTGGATTTAGGGAGGGCATTTTGTACCAAGCCTCTTCCCAACGCCCTGGGGACCAGTCTTCTGTTTTGTTTTT
CATTGTTTGACGTTTCCACTGCATGCCTTGACTTCCCCACCTCCTCCTCAAACAAGAGACTCCACTGCATGTTT
CAAGACAGTATGGGGTGGTAAGATAAGGAAGGGAAGTGTGTGGATGTGGATGGTGGGGGCATGGACAAAGCTTGA
CACATCAAGTTATCAAGGCCTTGGAGGAGGCTCTGTATGTCTCAGGGGACTGACAACATCCTCCAGATTCCAGC
CATAAACCAATAACTAGGCTGGACCCTTCCCACTACATAATAGGGCTCAGCCCAGGCAGCCAGCTTTGGGCTGAG
CTAACAGGACCAATGGATTAACTGGCATTTCAGTCCAAGGAAGCTCGAAGCAGGTTTAGGACCAGGTCCCCTTG
AGAGGTCAGAGGGGCCTCTGTGGGTGCTGGGTACTCCAGAGGTGCCACTGGTGGGAAGGGTCAGCGGAGCCCCAGC
AGGAAGGGTGGGCCAGCCAGGCCATTCTTAGTCCCTGGGTGGGGAGGCAGGGAGCTAGGGCAGGGACCAATGA
ACAGAAAGTCTCAGCCCAGGATGGGGCTTCTTCAACAGGGCCCCCTGCCCTCCTGAAGCCTCAGTCTTACCTTG
CCAGGTGCCGTTTTCTTCCGTGAAGGCCACTGCCCAGTCCCCAGTGCGCCCCCTAGTGGCCATAGCCTGGTTA
AAGTTCCCCAGTGCCTCCTTGTGCATAGACCTTCTTCTCCACCCCTTCTGCCCTGGGTCCCCGGCCATCCAG
CGGGGCTGCCAGAGAACCCAGACCTGCCCTTACAGTAGTGTAGCGCCCCCTCCTCTTTTGGCTGGTGTAGAAT
AGCCAGTAGTGTAGTGGGTGTGCTTTTACGTGATGGCGGGTGGGCAGCGGGCGGGGCTCCGCGCAGCCGTCT
GTCCTTGATCTGCCCGCGGCGGCCCGTGTGTGTTTTGTGCTGTGTCCACGCGCTAAGGCGACCCCTCCCCGT
ACTGACTTCTCCTATAAGCGCTTCTCTTCGCATAGTCACGTAGCTCCCACCCACCCTCTTCTGTGTCTCACGC
AAGTTTTATACTCTAATATTTATATGGCTTTTTTCTTCGACAAAAAATAATAAACGTTTCTTCTGAAAAGCT
G

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FIGURE 1775

MVPEAWRSGLQAPPNTDWRFSQAQRPGTSGSQNGDDTGTWPNNQFDTEMLQAMILASASEAADGSSTLGGGAGTM
GLSARYGPQFTLQHVPDYRQNVYIPGSNATLTNAAGKRDGKAPAGGNGNKKKSGKKEKK

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FIGURE 1776

CAGAAAGCCATGTCGGACTCGGCGCCAGCGCCCAAGCGCTAACCCGCTGAAAGTTTCTCAGCGAAATCTCAGGG
ACGATCTGGACCCCGCTGAGAGGAACTGCTTTTGAGTGAGATGGTCCAGAGGCCTGGAGGAGCGGACTGGTAAG
CACCGGGAGGGTAGTGGGAGTTTTGCTTCTGCTTGGTGCCCTGAACAAGGCTTCCACGGTCATTCACTATGAGAT
CCCGGAGGAAAGAGAGAAGGGTTTCGCTGTGGGCAACGTGGTCGCGAACCTTGGTTTGGATCTCGGTAGCCTCTC
AGCCCGCAGGTTCCGGGTGGTGTCTGGAGCTAGCCGAAGATTCTTTGAGGTGAACCGGGAGACCGGAGAGATGTT
TGTGAACGACCGTCTGGATCGAGAGGAGCTGTGTGGGACACTGCCCTCTTGCACTGTAACCTCTGGAGTTGGTAGT
GGAGAACCCGCTGGAGCTGTTTCAGCGTGGAAGTGGTGATCCAGGACATCAACGACAACAATCCTGCTTTCCCTAC
CCAGGAAATGAAATTGGAGATTAGCGAGGCGCTGGCTCCGGGGACGCGCTTTCCGCTCGAGAGCGCGCACGATCC
CGATGTGGGAAGCAACTCTTTACAAACCTATGAGCTGAGCCGAAATGAATACTTTGCGCTTCGCGTGCAGACGCG
GGAGGACAGCACCAAGTACGCGGAGCTGGTGTGGAGCGCGCCCTGGACCGAGAACGGGAGCCTAGTCTCCAGTT
AGTGCTGACGGCGTTGGACGGAGGGACCCAGCTCTCTCCGCCAGCCTGCCTATTACATCAAGGTGCTGGACGC
GAATGACAATGCGCCTGTCTTCAACCAGTCCTTGTACCGGGCGCGCTCCTGGAGGATGCACCCTCCGGCACGCG
CGTGGTACAAGTCCTTGCAACGGATCTGGATGAAGGCCCAACGGTGAAATTATTTACTCCTTCGGCAGCCACAA
CCGCGCCGGCGTGC GGCAACTATTGCCTTAGACCTTGTAACCGGGATGCTGACAATCAAGGGTCGGCTGGACTT
CGAGGACACCAAACCTCCATGAGATTTACATCCAGGCCAAAGACAAGGGCGCCAATCCCGAAGGAGCACATTGCAA
AGTGTGGTGGAGGTTGTGGATGTGAATGACAACGCCCCGAGATCACAGTCACCTCCGTGTACAGCCAGTACC
CGAGGATGCCCTCTGGGACTGTATCGCTTTGCTCAGTGTGACTGACCTGGATGCTGGCGAGAACGGGCTGGT
GACCTGCGAAGTTCCACCGGGTCTCCCTTTAGCCTTACTTCTTCCCTCAAGAATTACTTCACTTTGAAAACCAG
TGCAGACCTGGATCGGGAGACTGTGCCAGAATACAACCTCAGCATACCGCCGAGACGCCGGAACCCCTTCCCT
CTCAGCCCTTACAATAGTGC GTTCAAGTGTCCGACATCAATGACAACCTCCACAATCTTCTCAATCTTCCTA
CGACGTTTACATTGAAGAAAACAACCTCCCCGGGGCTCCAATACTAAACCTAAGTGTCTGGGACCCCGACGCCCC
GCAGAATGCTCGGCTTTCTTTCTTCTCTTGGAGCAAGGAGCTGAAACCGGGCTAGTGGGTGCTATTTTACAAT
AAATCGTGACAATGGCATAGTGTATCCTTAGTGCCCTTAGACTATGAGGATCGGCGGGAATTTGAATTAACAGC
TCATATCAGCGATGGGGCACCCCGGTCTAGCCACCAACATCAGCGTGAACATATTTGTCACTGATCGCAATGA
CAATGCCCCCAGGTCTATATCCTCGGCCAGGTGGGAGCTCGGTGGAGATGCTGCCTCGAGGTACCTCAGCTGG
CCACCTAGTGTACGGGTGGTAGGCTGGGACGCGGATGCAGGGCACAAATGCCTGGCTCTCCTACAGTCTCTTGGG
ATCCCCTAACAGAGCCTTTTTGCCATAGGGCTGCACACTGGTCAAATCAGTACTGCCCCTCCAGTCCAAGACAC
AGATTCACCCAGGCAGACTCTCACGGTCTTGATCAAAGACAATGGGGAGCCTTCGCTCTCCACCACTGCTACCCCT
CACTGTGTACAGTAACCGAGGACTCTCCTGAAGCCCCGAGCCGAGTTCCCCTCTGGCTCTGCCCCCGGGAGCAGAA
AAAAAATCTCACCTTTTATCTACTTCTTTCTCTAATCCTGGTTTCTGTGGGGTTTGTGGTACAGTGTTTCGGAGT
AATCATATTCAAAGTTTACAAGTGGAAGCAGTCTAGAGACCTATACCGAGCCCCGGTGAGCTCACTGTACCGAAC
ACCAGGGCCCTCCTTGACGCGGACGCCGTGCGGGGAGGCCTGATGTCGCCGACCTTTACCATCAGGTGTATCT
CACCACGGAATCCCGCCGACGCGACCCGCTGCTGAAGAAACCTGGTGCAGCCAGTCCACTGGCCAGCCGCCAGAA
CACGCTGCGGAGCTGTGATCCGGTGTCTATAGGCAGGTGTTGGGTGCAGAGAGCGCCCTCCCGGACAGGTAAAG
GTTTAGCAAGTCATGCTTGACCTGTAGTGCTTTTTTATTCCTACATCATATTGAGGAAGGAATGGAGCTGTTT
TTTTAGTGATGAAGATGTTTTCTGGTGATGCATTCACACTTTCAACTGGCCCTCCTAGATCAAAGTTAGTGCC
TTTGTGAGATGGTGGCCTGCCAGAGTGTTTGTGGTCCCATTTCAGGGGAAGATACTTGACTCATCTGTGGA
CCTAATTCACATCCTCAGC

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FIGURE 1777

MVPEAWRSGLVSTGRVVGVLGALNKASTVIHYEIPEREKGFVGNVAVANLGLDLGSLARRFRVVGASRR
FFEVRNRETGEMFVNDRLDREELCGTLPSCVTLELVVENPLELFSVEVVIQDINDNNPAFPTQEMKLEISEAVAP
GTRFPLESAHDPDVGSNSLQTYELSRNEYFALRVQTTREDSTKYAELVLERALDREREPSLQLVLTALDGGTPALS
ASLP IHIKVL DANDNAPVFNQSLYRARVLEDAPSGTRVVQVLATDLDEGPNGEIIYSFGSHNRAGVRQLFALDLV
TGMLTIKGRDLDFEDTKLHEIYIQAKDKGANPEGACHCKVLVEVVDVNDNAPEITVTSVYSPVPEDAPLGTVIALLS
VTDL DAGE NGLVTCEVPPGLPFSLTSSLKNYFTLKT SADLDRET VPEYNLSITARDAGTPSL SALTIVRVQVSDI
NDNPPQSSQSSYDVYIEENNLP GAPI LNL SVWDPDAPQ NARLSFFLLEQGAETGLVGRYFTINRDNGIVSSLVPL
DYEDRREFELTAHISDGGTPVLATNISVNIFVTDNRNDNAPQVLYPRPGGSSVEMLPRGTSAGHLVSRVVGWDADA
GHNAWLSYSLLGSPNQSLFAIGLHTGQISTARPVQD TDS PRQTLTVLIKDN GEP SLSTTATLTVSVTEDSPEARA
EFPSGSAPREQKNLTFYLLLSLILVSVGFVTVFGV IIFKVYKWKQSRDLYRAPVSSLYRTPGPSLHADAVRGG
LMSPLYHQVYLT TDSRRSDPLLKKPGAASPLASRQNTLRSCDPVFYRQVLGAESAPPGQVRFSKSCLTLLVLFY
SYIILRKEWSCFFSDEDVFLVMHSHFQLALPRSKLVPL

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FIGURE 1778

CCTCAGTTTCCTTGTTTGTAATAAGTTGAACTAAATCTTGACCCTTTAATGCTTGTTTTGAAATCCAAGGCAAA
AAACAATTGCAAGCGCCCTTACTTCCGTGTTGCTTCATACTCCTCTTGCGCCTGCGCTGTCTCCTTGAGCAGAG
GCGGGGCCAACAAGCCTGTTTTAGAAACCCCTCCAGTCCTTAGCTCGTTTAGAACACAAGACTCCAAGCTTATTGG
AGGGCTATCTTGCCCTTACGGCTCCAAGCCGCTTTTTACGGCGTTTTTCAGCTCGCCATTCACTTCGCTGTGAAGA
TGGCGTCGGGCAGCGGGGTAGGTGTTGTGTCTGAGGAGGAGGTTTTGCGGGGTGGGGAATGGTTTTTCAGACCTG
AATAGAGACAAACTCCTGCACCCGACTGGCTTCCCGATATCTCCTCGAGATCCCAGGGTTCAGGTTCAAGAACTC
CCCAGTAATAGGCCTTGGCAGAGGGTCAGTAGAATCGCGGAGGTTTTCTCGGGTTGGGGTCTTGAGGCTACCTCAG
TCTTCTCGTACAGTCCAAAGAGGCTTCGCTTTCAAACGTCCTGTAGACACCTGGACCGCGAGGGCGCGGTTCCC
TGCTTCTCTAGGGGCCCAGACACGGCGACGGATCTTGACGCTTTTTCTCCCCACAGACAAAAAACTTGGAATTT
CGCCGAAAGTGGGACAAAGATGAATATGAGAACTCGCCGAGAAGAGGCTCACGGAAGAGAGAGAAAAAGAAAT
GGAAAACCAAGTGCAGCCTGTCAAGCGAGAGCTTTTACGGCATAGGGACTACAAGGTGGACTTGGAATCCAAGCTT
GGGAAGACAATTGTCATTACCAAGACAACCC

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FIGURE 1779

TCGATAGCCGGAAGTCATCCTTGCTGAGGCTGGGGCAACCACCGCAGGTCGAGACAGCAGGCGGCTCAAGTGGAC
AGCCGGGATGGCAGAGCGTGCGGCGCTGGAGGAGCTGGTGAACTTCAGGGAGAGCGCGTGCGAGGCCCTCAAGCA
GCAGAAGGCCAGCGCCGAGCTGATCGAGGAGGAGGTGGCGAACTCCTGAACTGAAGGCACAGCTGGGTCCTGA
TGAAAGCAAACAGAAATTTGTGCTCAAACCCCCAAGGGCACAAAGAGACTATAGTCCCCGGCAGATGGCAGTTG
CGAGAAGGTGTTTGACGTAATCATCCGTTGCTTCAAGCGCCACGGTGCAGAAGTCATTGATACACCTGTATTGGA
ACTAAAGGAAACACTGATGGGAAAGTATGGGGAAGACTCCAAGCTTATCTATGACCTGAAGGACCAGGGCGGGGA
GCTCCTGTCCCTTCGCTATGACCTCACTGTTCCCTTTTGCTCGGTATTTGGCAATGAATAAACTGACCAACATTAA
ACGCTACCACATAGCAAAGGTATATCGGCGGGATAACCCAGCCATGACCCGTGGCCGATACCGGGAATTCTACCA
GTGTGATTTTGACATTGCTGGGAACTTTGATCCCATGATCCCTGATGCAGAGTGCCCTGAAGATCATGTGCGAGAT
CCTGAGTTCACTTCAGATAGGCGACTTCCTGGTCAAGGTAAACGATCGACGCATTCTAGATGGGATGTTTGCTAT
CTGTGGTGTTTCTGACAGCAAGTTCGCTACCATCTGCTCCTCAGTAGACAAGCTGGACAAGGTGTCTGGGAAGA
GGTGAAGAATGAGATGGTGGGAGAGAAGGGCCTTGACCTGAGGTGGCTGACCGCATTGGGGACTATGTCCAGCA
ACATGGTGGGGTATCCCTGGTGGAAACAGCTGCTCCAGGATCCTAACTATCCCAAACAAGCAGGCCCTTGGAGGG
CCTGGGAGACCTGAAGTTGCTCTTTGAGTACCTGACCCTATTTGGCATTGATGACAAAATCTCCTTTGACCTGAG
CCTTGCTCGAGGGCTGGATTACTACACTGGGGTGATCTATGAGGCAGTGCTGCTACAGACCCAGCCAGGCAGG
GGAAGAGCCCCCTGGGTGTGGGCAGTGTGGCTGCTGGAGGACGCTATGATGGGCTAGTGGGCATGTTGACCCCAA
AGGGCGCAAGGTGCCATGTGTGGGGCTCAGCATTGGGGTGGAGCGGATTTTCTCCATCGTGGAACAGAGACTAGA
GGCTTTGGAGGAGAAGATACGGACCACGGAGACACAGGTGCTTGTGGCATCTGCACAGAAGAAGCTGCTAGAGGA
AAGACTAAAGCTTGTCTCAGAACTGTGGGATGCTGGGATCAAGGCTGAGCTGCTGTACAAGAAGAACCCAAAGCT
ACTGAACCAGTTACAGTACTGTGAGGAGGCAGGCATCCCACTGGTGGCTATCATCGGCGAGCAGGAACCTCAAGGA
TGGGGTCATCAAGCTCCGTTCACTGACGAGCAGGGAAGAGGTGGATGTCCGAAGAGAAGACCTTGTGGAGGAAAT
CAAAAGGAGAACAGGCCAGCCCCCTGTCATCTGCTGAACTGAACAACTATCAGAGGAAAGGAAGTGGGACTGGC
ACTATTTGAGGTTAAGACAACTGCATATGTACTTCAATTGCTTTGCACTTTTCCGTTTCAGCGGAAGACCTGAA
GAGTGGTCAGAACAGAGCCTTTGATTTTATTATGGTTATTTTATTGATTATTACTGGCAAAAACGGCCAGGTAC
AACACCTTTTTTCATACAAGGCCAGGAGGCTTAGTCCAGTCTGTGCTCCTGGGCTACAAGGACCCAGCCTGAGAT
GGTCCCATCTGCAGGGCCCCGCACCAAGTTGGAGCAGATGCCTCCCCACCACCAATTGCCAAAGGTCCAATAAAAT
GCCTCAACCACGGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1780

MAERAAL EELVKLQGERVRGLKQQKASAELIEEEVAKLLKLKAQLGPDESKQKFVLKTPKGT RDYSPRQMAVREK
VFDVI IRCFKRHGA EVIDTPVFELKETLMGKYGEDSKLIYDLKDQGGELL SLRYDLTVPFARYLAMNKL TNIKRY
HIAKVYRRDN PAMTRGRYREFYQCDFDIAGNFDP MIPDAECLKIMCEILSSLQIGDFLVKVNDRRILDGMFAICG
VSDSKFRTICSSVDKLDKVSWE EVKNEMVGEKGLAPEVADRIGDYVQQHGGVSLVEQLLQDPKLSQNKQALEGLG
DLKLLFEYLT LFGIDDKISFDLSLARGLDYYTGVIYEAVLLQTPAQAGEEPLGVGSVAAGGRYDGLVGMFDPKGR
KVPCVGLSIGVERIFSIVEQRLEALEEKIRTTETQVLVASAQKKLLEERLKL VSELWDAGIKAELLYKKNPKLLN
QLQYCEEAGIPLVAIIGEQLKDGVIKLRSVTSREEVDVRREDLV EEEKRRTGQPLCIC

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FIGURE 1781

ACGCAAAGCAGTGTGGGTTGATTCTGAGGTGCACTGTGGGAAAAGAGCTTGTGCTGCGGTGTTGCTGTTGGAGAC
TCGATTGTTGGTGACAGCGAAAGAACGATAACAAAATCCCGGAGCGAGATAGTGAGCCGTTCTCCAACCCTTTGG
CCCCGATGGCCACGATGTGGATGATCCTCACTCCTTCCACCAATCAAACTCACCAATGAAGACTTCAGGAAAC
TTCTCATGACCCCCAGGGCTGCACCTACCTCTGCACCACCTTCTAAGTCACGTCACCATGAGATGCCAAGGGAGT
ACAATGAGGATGAAGACCCAGCTGCACGAAGGAGGAAAAAGAAAAGTTATTATGCCAAGCTACGCCAACAAAGAAA
TTGAGAGAGAGAGAGAGCTAGCAGAGAAGTACCGGGATCGTGCCAAGGAACGGAGAGATGGAGTGAACAAAGATT
ATGAAGAAACCGAGCTTATCAGCACCACAGCTAACTATAGGGCTGTTGGCCCCACTGCTGAGGCGGACAAATCAG
CTGCAGAGAAGAGAAGACAGTTGATCCAGGAGTCCAAATTCTTGGGTGGTGACATGGAACACACCCATTTGGTGA
AAGGCTTGGATTTTGGCTCTGCTTCAAAAGGTACGAGCTGAGATTGCCAGCAAAGAGAAAGAGGAAGAGGAAGTGA
TGGAAAAGCCCCAGAAAGAAACCAAGAAAGATGAGGATCCTGAAAATAAAATTGAATTTAAAACACGTCTGGGCC
GCAATGTTTACCGAATGCTTTTTAAGAGCAAAGCATATGAGCGGAATGAGTTGTTTCTGCGGGCCGCATGGCCT
ATGTGTTAGACCTGGATGATGAGTATGCTGACACAGATATCCCCACCACTCTTATCCGCAGCAAGGCTGATTGCC
CCACCATGGAGGCCAGACCACACTGACCACAAATGACATTGTCATTAGCAAGCTGACCCAGATCCTTTTCATACC
TGAGGCAGGGAACCCGTAACAAGAAGCTTAAGAAGAAGGATAAAGGGAAGCTGGAAGAGAAGAAACCTCCTGAGG
CTGACATGAATATTTTTGAAGACATTGGGGATTACGTACCCTCCACAACCAAGACACCTCGGGACAAGGAGCGGG
AGAGATATCGGGAACGGGAGCGTGATCGGGAAAGAGACAGAGACCGTGACCGAGAGCGAGAGCGAGAACGAGATC
GGGAACGAGAGCGAGAGCGGGACCGAGAGAGAGAAGAGGAAAAGAAGAGACACAGCTACTTTGAGAAGCCAAAAG
TAGATGATGAGCCCATGGACGTTGACAAAGGACCTGGGTCTACCAAGGAGTTGATCAAGTCCATCAATGAAAAGT
TTGCTGGGTCTGCTGGCTGGGAAGGCACAGAATCGCTGAAGAAGCCAGAAGACAAAAGCAGCTGGGAGATTTCT
TTGGCATGTCCAACAGTTATGCAGAGTGCTACCCAGCCACGATGGATGACATGGCTGTGGATAGTGATGAGGAGG
TGGATTATAGCAAAATGGACCAGGGTAACAAGAAGGGGCCCTTAGGCCGTTGGGACTTTGATACCCAGGAAGAAT
ACAGCGAGTATATGAACAACAAAGAAGCTTTGCCCAAGGCTGCATTCCAGTATGGTATCAAAATGTCTGAAGGGC
GGAAAACCGGCGCTTCAAGGAAACCAATGACAAAGCAGAGCTTGATCGCCAGTGGAAGAAGATTAGTGCAATCA
TTGAGAAGAGGAAGAAGATGGAAGCTGATGGGGTTGAAGTCAAAAGACCAAAATACTAA

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FIGURE 1782

MPERDSEPF SNPLAPDGHVDVDPHSFHQSKLTNEDFRKLLMTPRAAPT SAPP SKSRHHEMPREYNEDEDPAARRR
KKKSYYAKLRQQEIERERELAEKYRDRAKERRDGVNKDYETELISTTANYRAVGPTAEADKSAAEKRRQLIQES
KFLGGMEHThLVKGLDFALLQKVRAEIASKEKEEEEELMEKPQKETKKDEDPENKIEFKTRLGRNVYRMLFKSKA
YERNELFLPGRMAYVVDLDDEYADTDIPTTLIRSKADCPTMEAQTTLTNDIVISKLTQILSYLRQGTRNKKLKK
KDKGKLEEKPPPEADMNIFEDIGDYVPSTTKTPRDKERERYRERERDRERDRDRDRERERERDRERERERDRERE
EEKKRHSYFEKPKVDDEPMDVDKGPSTKELIKSINEKFAGSAGWEGTESLKKPEDKKQLGDFFGMSNSYAECYP
ATMDDMAVDSDEEVDYSKMDQGNKKGPLGRWDFDTQEEYSEYMNNKEALPKAAFQYGIKMSEGRKTRRFKETNDK
AELDRQWKKISAIIEKRKKMEADGVEVKRPKY

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FIGURE 1783

GTGACCCAGGCCCTGGTCACTCCATGCTTTGGAGGGTGCTTTTGTCAAAGAGGCCTCCTTTCCCTCACCCAGAG
CTGGATTTCCAAGAGGCTCCCATACCTAGCTGCCCTGGCAGACTCCCAGGGAGGAAAAACAGCGTGGCCTTGGCA
GCTGCCCCGAGGAAGGAGCCACAGGTGACAGGGAGAAGCCATTGCCATTCCCTGTCTCTGGCCCCCTTCAGCAAC
CCTGAACACTCTGCTCCAGCCAAGGTGGTGGAGAGATAGCCACAAGAGTGTTTCCAGCCACAGTCCCACAAGCCT
TTCGAGATGCAATCAATTGGCCACACCTGGAGAGATAGCCACAAGAGTGTTTCCAGCCACAGTCCCACAAGCCT
CAGCCTACCCGTAAACTGCCACCCAAGAGGACATGAAGGAACAGGAGAAAGGAGAAGGGAGTGATAGTAAGGAG
AGTCCAAAAACCAATCAGATGAATCAGGGGAGGAAAAGAATGGAGATGAGGATTGCCAGCGAGGCGGGCAGAAG
AAGAAAGGAAACAAACACAAGTGGGTTCCATTACAAATAGACATGAAGCCTGAAGTGCCAGAGAGAAACTGGCT
TCACGCCCCACTCGCCCCACCGGAGCCTAGACACATACCTGCCAATCGCGGAGAGATCAAAGGGTCTGAGTCTGCC
ACCTACGTGCCCCGTGGCCCCCCCCACCCAGCCTGGCAACCAGAGATCAAACCGGAGCCTGCCTGGCACGACCAG
GATGAGACATCGAGTGTGAAGAGTGATGGGGCTGGTGGGGCGCGGGCTTCCTTCCGTGGCCGTGGACGGGGGCGT
GGTCGCGGGCCGGGGACGCGGCCGGGGTGGCACTCGAACCATTGTTGACTACCAGTTTGGCTACCGAAAGTTTGAT
GGTGTGGAGGGGCCTCGTACGCCCCAAGTACATGAACAACATCACCTACTACTTTGACAATGTCAGCAGCACCAG
CTTTACAGTGTGGATCAGGAAGTCTCAAAGACTACATCAAGCGCCAGATTGAATACTACTTCAGCGTGGACAAT
TTAGAGCGAGACTTCTTCTGCGAAGGAAAATGGATGCTGATGGTTTTCTTACCCATCACCTTATTGCTTCTTTC
CACCGAGTGAGGGCCTTACCAGTACATTTCACTCATCTTTGCGGCCCTAAAGGACAGCAAGGTGGTGGAGATC
GTTGATGAGAAAGTTCGTAGGAGGGAGGAACCAGAAAAGTGGCCTCTTCCCCAATAGTGGATTATTCACAGACT
GATTTCTCCAGCTTCTCAACTGCCCTGAATTTGTTCCCGTCAGCACTACCAAAGGAGACAGAGTCGGCACCT
GGCTCTCCTCGTGAGTCACCCCAGTGCCAACCAAAACAGAGGAGGTCAGCAACCTAAAGACACTACCCAAGGGC
CTGTCTGCCAGCCTGCCTGACCTGGATTCTGAGAACTGGATTGAAGTGAAGAAGAGGCCTCGGCCATCCCCAGCA
CGCCCCAAGAAGTCAGAGGAGTCCAGATTTTCCACCTGACCTCTCTGCCTCAGCAGCTGCCTTCCAGCAGCTG
ATGTCCAAGGATCAGGATGAGCAAGAGGAAGTGGATTTTCTGTTTGACGAGGAGATGGAGCAGATGGATGGGCGG
AAGAACACCTTCACTGCCTGGTCTGATGAGGAATCTGACTATGAGATTGATGACAGGGATGTCAACAAGATCCTC
ATTGTCACCCAGACACCACATTACATGCGCCGGCACCCAGGGGGGACCGCACAGGCAACCACACCTCGCGTGCC
AAGATGAGCGCCGAAGTGGCCAAGGTCATTAATGATGGCCTCTTCTACTATGAGCAGGACCTGTGGGCTGAAAAG
TTTGAACCTGAGTATTCCCAGATCAAGCAAGAAGTCGAGAAGTTCAAAAAGGTCAATATGATCAGCCGGGAGCAG
TTTGACACACTGACCCCTGAGCCCCCTGTGGATCCCAACCAGGAAGTTCTCTCTGGGCCACCTCGGTTCCAGCAA
GTTCTTACGGATGCCCTGGCCAACAAGTTGTTTGGTGCTCTGAGCCCTCCACCATCGCCCGCTCTCTACCAACC
ACTGTCCCAGAGTCACCAAACCTACCGCAACACCAGGACCCCTCGCACTCCCCGGACACCACAGCTCAAAGACTCA
AGCCAGACATCACGGTTTTTACCCAGTGGTGAAAGAAGGACGGACACTGGATGCCAAGATGCCTCGAAAAAGAAAG
ACAAGACACAGTTCAAACCCACCCCTGGAGAGCCATGTGGGCTGGGTGATGGATTCCCGTGAGCACAGGCCCCGT
ACTGCTTCCATCAGTAAGATGGCCCCAGTGTGTGTTTCTGTTTCCCAAAGCAAGCTTTGAGAGCCACCTACCTA
TGACCAATGCTCTCTACTCCCTGCAGAGATGGCACAGACTGCAATAGGCATGCTTTTGAAGAAAATATACAATT
GATCTTTGAACAACGAAGGGCGTGGGGTGCCAGCTGCACACAGTTGAAAATCCGTGTATAACTTTTGACTCTCC
AAAAGCCTACTGTTAACCAGAAGCCTTACCAATAACATATAGTCAATTAGCACATGTTTTGCATATTATATGTAT
TACATACTGTATTCTTACAATAAGCTAAATAA

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FIGURE 1784

MKEQEKGEKSDSKESPKTKSDESGEEKNGDEDCQGGQKKKGNKHKWVPLQIDMKPEVPREKLASRPTRPPEPRH
IPANRGEIKGSESATYVPVAPPTPAWQPEIKPEPAWHDQDETSSVKSDGAGGARASFRGRGRGRGRGRGRGGT
RTHFDYQFGYRKFDGVEGPRTPKYMNNITYYFDNVSSTELYSVDQELLKDYIKRQIEYYFSVDNLERDFFLRKM
DADGFLPITLIASFHRVQALTDDISLIFAALKDSKVVEIVDEKVRREEPEKWPLPPIVDYSQTDQSLLNCPEF
VPRQHYQKETESAPGSPRAVTPVPTKTEEVSNLKTLPKGLSASLPDLSENWIEVKRPRPSPARPKKSEESRFS
HLTSLPQQLPSSQQLMSKDQDEQEELDFLFDEEMEQMDGRKNTFTAWSDEESDYEIDDRDVNKILIVTQTPHYMRR
HPGGDRTGNHTSRAKMSAELAKVINDGLFYEQDLWAEKFEPEYSQIKQEVENFKKVMNISREQFDLTPEPPVD
PNQEVPPGPPRFQQVPTDALANKLFGAPEPSTIARSLPTTVESPNYRNTRTPRTPRTPQLKDSSQTSRFYPVVK
EGRTLDKMPRKRKTRHSSNPPLSHVGVWVMSREHRPRTASISSPSEGTPTVGSYGCTPQSLPKFQHPSELL
KENGFTQHVYHKYRRRCLNERKRLGIGQSQEMNTLFRFWSFFLRDHFNNKMYEEFKQLALEDAGEYRYGLECLF
RYYSYGLEKKFRDIFKDFQEETVKDYEAGQLYGLEKFWAFLKYSKAKNLDIDPKLQEYLGKFRRLDFRVDPPM
GEEGNHKRHSVVAGGGGGEGGRKRCPSQSSSRPAAMISQPPTPPTGQPVREDAKWT SQHSNTQT LGK

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FIGURE 1785

GGCACGAGGGAAGAGCTCCACCTTCTCTGGATGTGCCTGGGCTTGGACTGGCTAGAATCTTTCTCTGGACTGTT
GCATGTACAGTGCCTCCATCCTGGAGGCAAGAGAGTTGGGAGTGGCTCGAATCAGAGCCGTGCCAAGATATCCC
TGCTGTTGCATCGTTTGAAGCTGACGTCTGTGTCTGTACACTGCTGCCACTGTTGTGTCTCGCTCTGCTTGCT
GTTGCCTCAGCCAGGCCCCGTCTGCGGTGACACCCTTCATCCTACCCTTGGAACCCCAAGGCCAAGTTGGTTC
AAACTGTTGGAGAACAGAGTTGGCCTGCATCTGGAACACACTTGTCTCAGCTTACCATCTCCTCACACCCCAAG
GTGGAAGGTGAACACCTGCAGCTGAGGCTTGGAAACGTTTCTTGTGTTGCCCTGAAAAATCTTTGAGACCTCAG
GGAGGCTCTGTCTCTCTTAAAAGGTGGAGAAAGATGCCATTCTCTCCCTAAGGTCTGGTGGAGTCTCCCCATCTT
GCATACCCTTCTGCAAGCCATCTATCTCTGCTCACTCTCCAATTGACCCGCTGGGAACAAGGGATGAGGAGGAG
TTGGGGGCTGGGGGGAATCCTGCCAGTTGGTGAAGCCCTGTGGCAGGAAGGTATATGTGGACATAGAGTATACCT
GATTCTCTTTCTTCAGCCACTGACTGCTTGGGTTGGGCTGTGAATGATAATGGAATGGCTGGAGTCTGCTGTTGT
CAGAAGGCAGGGAGGGTGATGAAGGACTGACCCACATGGACTGGGATGTGTGTGCGTTATGGGCATGACTGCACG
TTCATCTCAGTGGGATCTGGGCAACATGGAGTTTCATTGTCTGTGCTTACTTACTGCAATGTCTTTGGCCCTC
CTTTTCAACTGGTTCTCTGTGTTGGGCCCAAAGGTGGGAGTAGGAGACAGTATCCCAGGCTGACAAGGGCTTGCC
CTTTACCTTGGGCACCTTGTTAATTTTTAGCCTGTGCCCTTCCCCACCTTTGCCCTCCCAGTGGTTGGTATGTGG
GAAGCCCATCTCAGTTCTGTGACTTCATGTCTCAAACCAAGGATGAGCGTCTGGTCTCTGCTATGATGGTGGTA
TCCGAGGCCCTTTCCCTGCCAGTCTGGTGCTGCCCCACATTGTACCGGACACTGGATTCTGGACCCCCCTTCTC
CTTTCTTTCTTTCTTCAGGTACGCAGCCCTGTACTGTATCCAGCACCACAGAAACCTCAGTGTTTTTCTCTCT
GCTGGTTTGGGGCACAAGGAAGCCTTAGGGTATGGGGAAAGGCTGTTATTACCTAGAGTTTACTCCCAGGCCAGG
GGGCTGCCATCTTCTTCACAGACATCCCTGAAAAGGAAGCCCCCTTGGGGCAGGGAGGTGAGGACTTCATCTCAAC
ATCGGCTGGTGGTTGGTAGGGGAGCTTTTTCTTTCTTTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
GTAACATGTTAGGAGTTAATGTTGCAAAGAGTAGTTTACATCTTCATTTCTGAAGACACTTGAATTTAGGACCG
ATGTATCTGTGACAAGCATGCCAGAAGTGGCAGGGGCCATCAGGGCTAACCCTTCACACCTACCATCGTCCCAT
GGGGATCCAAGACCTGAGATAAAGCAACAGCCTGCCCAGATCCCTCTGTTTCATCCTATCCCTTCCAAGGTTGGTC
CATGCCAACATAACCTCTGGGCATCAGACATCAGCAGGTCTGTGTGCCTCAGCCCTGTTAAGGGGCAGGTTTCTC
TTTAGCCCTCTTCTGCACTTGGGAGCAAAGGCACTACCAGTAGAGAAGGGCCATCCAGCCGTGCCCCAGCCTGG
ACCCCTGGGGCTCAGATAGAGGTGCTGAGCCCTGTGTCAAAGTTGTTAAATGTTTTGTTTTGTTTCCATTGTAG
CTCTTTTTTTTTTTTTTCCCTTTCTGGTGATTGATTTTACAAAAGAAAGTAAGCTGCTTAGAAGGCCCTGGAAGG
GAAGTGAGGAGGAGGGACAAGGAAGATGACTAGTTACGGAGGGTGAGGGTTGTTTTTGGCAAAAAGCCTGGGTA
GAGTGATCTGAATTATCTGGCACCCTCCTGAATGGAACCCCAAGTACCTCCTGTGTGGAAGGTTCCCTGGATTT
TCCCTAACACCCACCCTCTCCCCCTTCAGCCATGCTGATGGCAGAGAAGATAAGAACTTGGAGCCCATTCTCAC
TGGAGAGGAAAACCTTGTCATCTGGCTTTGCGGAGAAGGTTCCACCTTACGCTCGTAGTACATTATCTTTACTATG
TGCTAGGATATCATATTTAAAAGGACAAAAAATGTAAATACTTGAATGAGCTTGATTATAACATTAATATTA
TTGAGAGTATCTGCTTTCCAGGCTGAAGTGATTTCATTATTCTAGTCCTGCTTTAGTCCTTTGTAATTTGTG
GTAATTATGCTTTTCTTTTTTAATACAAAAAATGTATAAAAAATAAACACTTGAAAAGGCAAAAAAAAAAAAAA
AA

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FIGURE 1786

MLGVNVAKSSLHLHFLKILEFRIDVSVTSMPEVAGAIRANHFTPTIVPWGSKT

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FIGURE 1787

GCGGTCTTATATAAGCCAGATCCGCAGGGGAGTCCGCAGAAGGGTTAAACAGGTCTTTGGGCTTCGGCGACCTCG
CCCGCGGCAGAAACCGGTAAGAAGACAGTGGGCTGCGCGTCTCATTTCAGCCTTGCCCGGACTCTCCCAAAGCC
GGCGCCAGTAGTGGCTCCAGAGCCACAGGTGGCCCCGGCAGTCTCTGGGGCGCATGGAGCGGCGTTAATAGG
GCTGGCGGCGCAGGCCAGTAGCCGCTCCAACATGAACCTCGTGGGCAGCTACGCACACCATCACCACCATCACCA
CCCGCACCTGCGCACCCCATGCTCCACGAACCTTCCTCTTCGGTCCGGCCTCGCGCTGTCATCAGGAAAGGCC
CTACTTCCAGAGCTGGCTGCTGAGCCCGGCTGACGCTGCCCCGGACTTCCCTGCGGGCGGGCCGCCGCCCGCGGC
CGCTGCAGCCGCCACCGCCTATGGTCCTGACGCCAGGCCTGGGCAGAGCCCCGGGCGGCTGGAGGCGCTTGGCGG
CCGTCTTGGCCGGCGGAAAGGCTCAGGACCCAAGAAGGAGCGGAGACGCACTGAGAGCATTAAACAGCGCATTTCGC
GGAGTTGCGCGAGTGCAATCCCCAACGTGCCGGCCGACACCAAGCTCTCCAAGATCAAGACTCTGCGCCTAGCCAC
CAGCTACATCGCCTACCTGATGGACGTGCTGGCCAAGGATGCACAGTCTGGCGATCCCGAGGCCTTCAAGGCTGA
ACTCAAGAAGGCGGATGGCGGCCGTGAGAGCAAGCGGAAAAGGGAGCTGCAGCAGCACGAAGGTTTTCTCTCTGC
CCTGGGCCCAGTCGAGAAGAGGATTAAAGGACGCACCGGCTGGCCGCAGCAAGTCTGGGCGCTGGAGTTAAACCA
GTGAGCCGAGGCCCCGCGCCGAGGACCTGGCCAGGCCAGCCACTCTGAAGCCCCGGGAGGAGAGGAAGGCAGCGG
CGAACGCCAGGCTCTGGGCTCCGGCGACTGGTGCTACGCATCCCGCGGAGCTTCTGCTGAGCGCCGGCAGGTCTGT
CGGCTGCAACCACACACTTGGATCGCACGTGCAATGTCTTTGATTTTTTTTAAATACATTAAAGAGAAAGAGAAAT
ATATATATATCCACCCCCAGCCCAACCGAGGGCGGCCCTTGGCGGCAACATGCAAGAAGGAGGGACTGTGCAACC
CAAGGGCTCAAAGACGCACTCTTCCACCCTTTTGGAGCGAATTTAGAACCTCAGCCCTATCTCCATTTCCCTATC
TGGCTCTTTCTCTCTTGTCCCTCCATATGATCCGCCCCGACGCCGTCTTCTCTAATTAAATGCAATAAGGAATC
AATTCTTTTCTTGCCTGAGAAAGAGAACCAGACGCAGGAAGATGAAAGGCTGCCCTTTGTTCTTCGAATCGTGGT
GGTTTTATTTTATTTTCTTTTGTGCTGCACTTCCTGTTTAGTTCCAAGGGAAACATTTCTCTCTTTCTCTG
TCTCTCTCTTTTCTTCTTCTTTTCTTCTTCTTTTGTCTATCTAAATAAAAGCTTTCCTGTGTTGGAAAGTT
TTTATGTATTTAACTACCTACCATGCCTGTTGTGCTCAGGTGTTTGTTCATCCTGCCATCCCCAACCCTTTTCT
ACCTCAAGTCTGTGTGACCACTCACAGCCCCCTCCCTTCGCCAAAGCAGTGTCTATGCTCTTGATTAATAAAAC
ATTTTCTGAAATCAAAAAAAAAAAAA

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FIGURE 1788

MNLVGSYAHHHHHHPHPAHPMLHEPFLFGPASRCHQERPYFQSWLLSPADAAPDFPAGGPPPAATAATAYGPD
ARPGQSPGRLEALGGRLGRRKGS GPKKERRRTE SINSFAELRECIPNVPADTKLSKIKTLRLATSYIAYLMDVL
AKDAQSGDPEAFKAELKKADGGRESKRKRELQQHEGFPPALGPVEKRIKGRGTGWPQQVWALELNQ

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FIGURE 1789

ATGCACTATTCTAAGGAATATAGGCAGATGTACAGAACTGAAATTCGAATGACAAGGATGGCAAGAAAAGCTGGC
AACTTCTATGTACCTGCAGAACCCAAATTGGAGTTTGTCTCAGGATCAGAGGTATCAATGGTGATCAGATTCAT
AAGATCTATACTGTTGGAAAACGCTTCAAAGAAGCAAATAACTTTCTGTGGCCCTTCAAATTACCTTTTCCACCA
GGCAGAGTGAAGAAAAAGACCACTTATTTGTAGAAGGTGGAAATGCTGGCAACAGGGAGGACCAGATCAACAGG
CTTATTAGAAGAATGAACTAA

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FIGURE 1790

MHYSKEYRQMYRTEIRMTRMARKAGNFYVPAEPKLEFVIRIRGINGDQIHKIYTVGKRFKEANNFLWPFKLPFPF
GRVKKKTTYFVEGGNAGNREDQINRLIRRMN

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FIGURE 1791

GATCAGGGCCGAGTTGTCTCGGCGGCGCTGCCGAGGCCTCCACCCAGGACAGTCCCCCTCCCCGGGCCTCTCTCC
TCTTGCCCTACGAGTCCCCCTCTCCTCGTAGGCCTCTCGGATCTGATATCGTGGGGTGAGGTGAGCAGGCCCGGGGA
GGGTGGTTACCGCTGAGGAGCTGCAGTCTCTGTCAAGATGATAGAGGTACTGACAACAAGTACTCTCAGAACT
GCTACACCAGCTGAATGCCCTGTTGGAACAGGAGTCTAGATGTCAGCCAAAGGTCTGTGGTTTGAGACTAATTGA
GTCTGCACACGATAATGGCCTCAGAATGACTGCAAGACTAAGGGACTTTGAAGTAAAAGATCTTCTTAGTCTAAC
TCAGTTCTTTGGCTTTGACACAGAGACATTTTCTCTAGCTGTGAATTTACTGGACAGATTCTGTCTAAAATGAA
GGTACAGCCCAAGCACCTTGGGTGTGTTGGACTGAGCTGCTTTTATTTGGCTGTAAAATCAATAGAAGAGGAAAG
GAATGTCCCATTGGCAACTGACTTGATCCGAATAAGTCAATATAGGTTTACGGTTTCAGACTTGATGAGAATGGA
AAAGATTGTATTGGAGAAGGTGTGTTGGAAAGTCAAAGCTACTACTGCCTTTCAATTTCTGCAACTGTATTATTC
ACTCCTTCAAGAGAACTTGCCACTTGAAAGGAGAAATAGCATTAAATTTGAAAGACTAGAAGCTCAACTGAAGGC
ATGTCATTGCAGGATCATATTTTCTAAAGCAAAGCCTTCTGTGTTGGCATTGTCTATCATTGCATTAGAGATCCA
AGCACAGAAGTGTGTAGAGTTAACAGAAGGAATAGAATGTCTTCAGAAACATTCCAAGATAAATGGCAGAGATCT
GACCTTCTGGCAAGAGCTTGTATCCAAATGTTTAACTGAATATTCATCAAATAAGTGTCCAAACCAAATGTTCA
GAAGTTGAAATGGATTGTTTCTGGGCGTACTGCACGGCAATTGAAGCATAGCTACTACAGAATAACTCACCTTCC
AACAATTCCTGAAATGGTCCCTTAACTGGATTATTACAGCACCAAAAACTTCTCTGAAGCCTTTCTCCACAACC
TTGTTCTATGGATTCCATAATGTTACAATGGATTTAAGCTATGAAGCCTCAAAACATCACGAGATAAGCATGATG
GTCTCAGACTTGGGAAAACTGCCTAATATTATGCTGTAGTGGAATTATGTTTATGATTTGAATTCATCTGTGAAG
GCATTCAAATCAAAGCTAAAAGCCTAAATGTGAAATGCTAATGACAAGCCTGAGAAGGTAAACTATGAATCTTCA
TTTCTATCATTGATCTAACTTTAGATATTGGATCAATATATTTAGGTGGTATTGAAAATGCTATTGGAGGAGTCA
CACTAATACTATCAACTATCAGTCTTCCACAGCTTCAATCACTGTCAATTATTCTAATCCTACTCTACTTAAAT
TTTAAGTTATGAGGTTTATGTGAAAGCAACATTTACAAATGTACTTTTAAGGCATAATAAGGGTTAACATTCT
AGG

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FIGURE 1792

MIEVLTTTDSQKLLHQLNALLEQESRCQPKVCGLRLIESAHDNGLRMTARLRDFEVKDLLSLTQFFGFDTETFSL
AVNLLDRFLSKMKVQPKHLGCVGLSCFYLA VKSIEEERNVPLATDLIRISQYRFTVSDLMRMEKIVLEKVCWKVK
ATTAFQFLQLYYSLLQENLPLERRNSINFERLEAQLKACHCRIIFSKAKPSVLALSIIALEIQAQKCVELTEGIE
CLQKHSKINGRDLTFWQELVSKCLTEYSSNKCSKPNVQKLKWIVSGRTARQLKHSYYRITHLPTIPEMVP

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FIGURE 1793A

GTAGAGTTAAGGAAGGGCCTCTTCTCTGTGAGAATTCAGCATTTTGCAACCATCCAAAAATGTTGAGGGCATGC
TTTGCTTCCAGGGCAGACAGAGCAGCACAGTGAGCATGGGACACAGGATCCCTGACTTGCTGTGTGCCCTTAAAC
CAGCCACTACCTCTCTGACGTTCAAAATTGAGCAATGGAAGGCAGCCTGCCCAACTGTTACCTGCCTGTCATCAT
GAAAGCCTGCGGATGAGTGAGAATACAGAACTGCAGCCATGACCACGCACGTCACCCTGGAAGATGCCCTGTC
CAACGTGGACCTGCTTGAAGAGCTTCCCCTCCCCGACCAGCAGCCATGCATCGAGCCTCCACCTTCTCTCCATCAT
GTACCAGGCTAACTTTGACACAACTTTGAGGACAGGAATGCATTTGTCACGGGCATTGCAAGGTACATTGAGCA
GGCTACAGTCCACTCCAGCATGAATGAGATGCTGGAGGAAGGACATGAGTATGCGGTCATGCTGTACACCTGGCG
CAGCTGTTCCCAGGTCATTCCAGGTGAAATGCAACGAGCAGCCCCAACCGAGTAGAGATCTATGAGAAGACAGTA
GAGGTGCTGGAGCCGGAGGTACCAAGCTCATGAAGTTCATGTATTTTCAGCGCAAGGCCATCGAGCGGTTCTGC
AGCGAGGTGAAGCGGCTGTGCCATGCCGAGCGCAGGAAGGACTTTGTCTCTGAGGCCTACCTCTGACCCTTGGC
AAGTTCATCAACATGTTTGCTGTCTGGATGAGCTAAAGAACATGAAGTGCAGCGTCAAGAATGACCACTCTGCC
TACAAGAGGGCAGCACAGTTCTGCGGAAGATGGCAGATCCCCAGTCTATCCAGGAGTCGCAGAACCTTTCCATG
TTCTGGCCAACCACAACAGGATCACCCAGTGTCTCCACCAGCAACTTGAAGTGATCCCAGGCTATGAGGAGCTG
CTGGCTGACATTGTCAACATCTGTGTGGATTACTACGAGAACAAGATGTACCTGACTCCCAGTGAGAAACATATG
CTCTCAAGGTGATGGGCTTTGGCCTCTACCTAATGGATGGAAATGTCAGTAACATTTACAACTGGATGCCAAG
AAGAGAATTAATCTTAGCAAAATTGATAAATTCTTTAAGCAGCTGCAGGTGGTGCCCTTTTCGGCGACATGCAG
ATAGAGCTGGCCAGATACATTAAGACCAGTGCTCACTATGAAGAGAACAAGTCCAAGTGGACGTGCACCCAGAGC
AGCATCAGCCCCCAGTACAATATCTGCGAGCAGATGGTTCAGATCCGGGATGACCACATCCGCTTCATCTCCGAG
CTCGCTCGCTACAGCAACAGTGAGGTGGTGACGGGCTCAGGGCTGGACAGCCAGAAGTCAGACGAGGAGTATCGC
GAGCTCTTCGACCTAGCCCTGCGGGGTCTGCAGCTTCTATCCAAGTGGAGCGCCACGTCATGGAGGTGTACTCT
TGGAAGCTGGTTTCATCOCACAGACAAGTTCTGCAACAAGGACTGTCTGGCACC GCGGAGGAATATGAGAGAGCC
ACACGCTACAATTACACCAGTGAGGAAAAATTTGCCTTCGTTGAGGTGATCGCCATGATCAAAGGCCTGCAGGTG
CTCATGGGCAGGATGGAGAGCGTCTTCAACCAGGCCATCAGGAACACCATCTACGCGGCATTGCAGGACTTCGCC
CAGGTGACGCTGCGTGAGCCCCTGCGGCAGGCGGTACGGAAGAAGAAGTGTCTCATCAGCGTCTACAGGCA
ATTGGAAGACCATCTGTGACTGGGAGGGAGGGCGAGAGCCCCCTAATGACCCATGCTTGAGAGGGGAGAAGGAC
CCCAAAGGTGGATTTGATATCAAGGTGCCCCGGCGTGCTGTGGGGCCATCCAGCACACAGCTGTACATGGTGCGG
ACCATGCTTGAATCACTCATTGCAGACAAAAGCGGCTCCAAGAAGACCCTGAGGAGCAGCCTGGATGGACCCATT
GTCTCGCCATAGAGGACTTTTCAAAACAGTCTTCTTCTTCACACATCTGCTCAACATCAGTGAAGCCCTGCAG
CAGTGTGTGACCTCTCCCAGCTCTGGTTCCGAGAATTCTTCTGGAGTTAACCATGGGGCCGACGAATCCAGTTC
CCCATCGAGATGTCCATGCCCTGGATTCTAACGGACCATATCCTGGAAACCAAAGAACCTTCCATGATGGAGTAT
GTCTCTACCCCTCTGGATCTGTACAACGACAGCGCCTACTATGCTCTGACCAAGTTTAAAAAGCAGTTCTGTAC
GATGAGATAGAAGCTGAGGTGAACCTGTGTTTTGATCAGTTTGTCTACAAGCTGGCAGACCAGATCTTTGCTTAC
TACAAAGCCATGGCTGGCAGTGTCTGTGGATAAACGTTTTTCGAGCTGAGTGTAAAGATTATGGCGTCATCATT
CCGTATCCACCGTCCAATCGCTATGAAACACTGCTGAAGCAGAGACACGTCACGCTGTTGGGTAGATCAATTGAC
TTGAACAGACTCATTACCCAGCGCATCTCTGCCGCCATGTATAAATCCTTGGACCAAGCTATCAGCCGCTTTGAG
AGTGAGGACCTGACCTCCATTGTGGAGCTGGAGTGGCTGCTGGAGATTAACCGGCTCACGCATCGGCTGCTCTGT
AAGCATATGACGCTGGACAGCTTCGATGCCATGTTCCGAGAGGCCAATCACAATGTGTCCGCCCCCTATGGCCGT
ATCACCTGTCATGTCTTCTGGAACTGAACCTTTGACTTTCTCCCCAACTACTGCTACAATGGGTCCACTAACCGT
TTTGTGCGGACTGCCATTCTTTTACCCAAAGAACACAACGAGACAAACCTGCCAACGTCCAGCCTTATTACCTC
TATGGATCCAAGCCTCTCAACATTGCCTACAGCCACATCTACAGCTCCTACAGGAATTTCTGTTGGGGCCACCTCAT
TTCAAGACTATCTGCAGACTCCTGGGTATCAGGGCATCGCTGTGGTTCATGGAGGAAGTCTAAAGATTGTGAAG
AGCTTGCTCCAAGGAACCATCTCCAGTATGTGAAAACACTGATAGAGGTGATGCCCAAGATATGCCGCTTGCCC
CGACATGAGTATGGCTCCCCAGGGATCCTGGAGTTCTTCCACCACCAGCTGAAGGACATCATTGAGTACGCAGAG
CTCAAAACAGACGTGTTCCAGAGCCTGAGGGAAGTGGGCAATGCCATCCTCTTCTGCCTCCTCATAGAGCAAGCT
CTGTCTCAGGAGGAGGTCTGCGATTTGCTCCATGCCGCACCCCTTCCAAAACATCTTGCCTAGAGTCTACATCAA
GAGGGGGAGCGCCTGGAGGTCCGGATGAAACGTCTGGAAGCCAAGTATGCCCCGCTCCACCTGGTCCCTCTGATC
GAGCGGCTGGGGACCCCTCAGCAAATCGCCATTGCTCGCGAGGGGTGACCTCCTGACCAAGGAGCGGCTGTGCTGT
GGCTGTCCATGTTTCAGGTCATCCTGACCCGCATTTCGGAGCTACCTGCAGGACCCCATCTGGCGGGGGCCACCG

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FIGURE 1793B

CCCACCAATGGCGTCATGCACGTCGATGAGTGTGTGGAGTTCCACCGGCTGTGGAGCGCCATGCAGTTCGTGTAC
TGCATCCCTGTGGGAACCAACGAGTTCACAGCTGAGCAGTGTTCGGCGATGGCTTGAAGTGGGCTGGTTGCTCC
ATCATTGTCCTGCTGGGCCAGCAGCGTCGCTTTGACCTGTTGACTTCTGTTACCACCTGCTAAAAGTGCAGAGG
CAGGACGGGAAGGATGAAATCATTAAAGATGTGCCCCTGAAGAAGATGGCCGACCGGATCAGGAAGTATCAGATC
TTGAACAATGAGGTTTTTGCCATCCTGAACAAATACATGAAGTCCGTGGAGACAGACAGTTCCACTGTGGAGCAT
GTGCGCTGCTTCCAGCCACCCATCCACCAGTCCTTGGCCACCACTTGCTAAGCAGAAGATCCTGCAGACCCTTAT
CTGGAGGAGGAAGAGAAGCAGGAGAGAGAAAGCCACAGCCAGCCTGCCATAGGATCCAAGTGGACAACGTGTGGG
ATGGACCTGGAAACAAGCACCTCCCCAAACACATCACCACCTCCCTAGGGCGGGGCCTGTGCATGCTCTCCCATGA
CATCTCCATGCTGGTTTTCTCCATAGCATAAATGAAAAAAAAAAAAAAAAAAGTAAACAGGGCAGTGTGTGCTTTTT
CTTTTCTCCCCCTCAACTATATTAAGAACTCCTAGTTTCACCCTTTCTCCATCCCATCATCCACCTATCTGTG
GTTGCTTCCCAAGACCT

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FIGURE 1794

MKFMVFQRKAIERFCSEVKRLCHAERRKDFVSEAYLLTLGKFINMFAVLDELKNMKCSVKNDHSAYKRAAQFLRK
MADPQSIQESQNLSMFLANHNRTQCLHQQLEVIPGYEELLADIVNICVDYYENKMYLTPSEKHMLLKVMGFGLY
LMDGNVSNIIYKLDKAKKRINLSKIDKFFKQLQVVPLFGDMQIELARYIKTSAHYEENKSKWTCTQSSISPQYNICE
QMVQIRDDHIRFISELARYSNSEVVTGSGLDSQKSDEEYRELFDLALRGLQLLSKWSAHVMEVYSWKLHVPTDKF
CNKDCPGTAEEYERATRYNYTSEEKFAFVEVIAMIKGLQVLMGRMESVFNQAIRNTIYAALQDFAQVTLREPLRQ
AVRKKKNVLISVLQAIRKTICDWEGGREPPNDPCLRGEKDPKGGFDIKVPRRAVGPSSTQLYMVRTMLES LIADK
SGSKTLRSSLDGPIVLAIEDFHKQSFFFTHLLNISEALQQCCDLSQLWFRFFLELTMGRRIQFPIEMSMPWIL
TDHILETKEPSMMEYVLYPLDLYNDSAYYALTKFKKQFLYDEIEAEVNLCFDQFVYKLADQIFAYYKAMAGSVLL
DKRFRAECKNYGVIIIPPSPNRYETLLKQRHVQLLGRSIDLNRLITQRISAAMYKSLDQAISRFESDLTSIVEL
EWLLEINRLTHRLCKHMTLDSFDAMFREANHNVSAPYGRITLHVFWELNFDLFPNYCYNGSTNRFVRTAIPFTQ
EPQRDKPANVQPYLYGSKPLNIAYSHIYSSYRNFGPPHFKTICRLLGYQGIADVMEELLKIVKSLLQGTLQY
VKTLIEVMPKICRLPRHEYGSPGILEFFHHQLKDIIEYAELKTDVFQSLREVGNAILFCLLIEQALSQEEVCDLL
HAAPFQNILPRVYIKEGERLEVVRMKRLEAKYAPLHLVPLIERLGTPOQIAIAREGDLLTKERLCCGLSMFEVILT
RIRSYLQDP IWRGPPPTNGVMHVDECVEFHRLWSAMQFVYCIPVGTNEFTAECQCFGDGLNWAGCSIIVLLGQORR
FDLDFDCYHLLKVQRQDGKDEI IKNVPLKKMADRIRKYQILNNEVFALNKYMKSVETDSSTVEHVRCFQPPIHQ
SLATTC

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FIGURE 1795

GCGGCCTCAGATGAATGCGGCTGTTAAGACCTGCAATAATCCAGAAATGGCTACTCTGATCTATGTTGATAAGGAA
AATGGAGAACCAGGCACCCGTGTGGTTGCTAAGGATGGGCTGAAGCTGGGGTCTGGACCTTCAATCAAAGCCTTA
GATGGGAGATCTCAAGTTTCAACACCACGTTTTGGCAAAACGTTTCGATGCCCCACCAGCCTTACCTAAAGCTACT
AGAAAGGCTTTGGGAAGTGTCAACAGAGCTACAGAAAAGTCTGTAAAGACCAAGGGACCCCTCAAACAAAAACAG
CCAAGCTTTTCTGCCAAAAAGATGACTGAGAAGACTGTTAAAGCAAAAAGCTCTGTTCCCTGCCTCAGATGATGCC
TATCCAGAAATAGAAAAATTCTTTCCCTTCAATCCTCTAGACTTTGAGAGTTTTGACCTGCCTGAAGAGCACCAG
ATTGCGCACCTCCCCTTGAGTGGAGTGCCTCTCATGATCCTTGACGAGGAGAGAGAGCTTGAAAAGCTGTTTCAG
CTGGGCCCCCTTCACCTGTGAAGATGCCCTCTCCACCATGGGAATCCAATCTGTTGCAGTCTCCTTCAAGCATT
CTGTCGACCCTGGATGTTGAATTGCCACCTGTTTGCTGTGACATAGATATTTAAATTTCTTAGTGCTTCAGAGTT
TGTGTGTATTTGTATTAATAAAGCATTCTTCAACAGAAAAAAAAAAAAAAAAAAAA

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FIGURE 1796

MATLIYVDKENGEPTGRVVAKDGLKLGSGPSIKALDGRSQVSTPRFGKTFDAPPALPKATRKALGTVNRATEKSV
KTKGPLKQKQPSFSAKKMTEKTVKAKSSVPASDDAYPEIEKFFPFNPLDFESFDLP EEHQIAHLPLSGVPLMILD
EERELEKLFQLGPPSPVKMPSPWESNLLQSPSSILSTLDVELPPVCCDIDI

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FIGURE 1797

ATGGCCCTGGAGTTTCTCCCTCAGACTAAGAACCATCCACCAGTAGCAGAACTACATCCTCAGGGGGGGTTTTCT
TTCGTGAATGCAAATGTCCCGGCACCTAAACGGTTCACATTACCGCAGGTGATTTCTGCAGCTGTAAC TAAGTTC
CATCCTCAGCAAGAATCAGAACCACCAGAGACAGAGCAGAGAGACACCATGCCCTCACTTGCGAGAGTTCAAATG
GCACTTTCTTGAAAAAGAAGATTGGGTGTTACAGCTTTCTGAGCAACAACGATACAAAGTGGATGCAATTCAT
CCATCGTCTCTGAAAAGTCTTCGACCATTGCATGAGATTGTAGAGGAAGACAGGCACAGGAAGACCAAACAGCGT
GTAGAGGATACGAAGATTGGCTACCCAAGTGTTCATCAGTACCCCATTTCTATCATCAACGGGTACAAACGAGTC
CTGGCCTTGCTGTGGAGACGGATTACACCTTCCCACTCGCTGAAAAGGTCAAGGCCTTCTTGGCTGATCCATCT
GCCTTTGGCTTTGATGTTTCAAGCAATGCTGGGTCAACCCAACCACTCAGCACATTCACTGGACCTGGTCGTGCC
CAAGCTCCTCCACTGCATGATTGAGAGTTGAGATAG

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FIGURE 1798A

GCAACTGGACAACAACCACATCAGCTGCATTGAAGATGGAGCCTTCCGAGCGCTGCGCGATTGGAGATCCTTAC
CCTCAACAACAACAACATCAGTCGCATCCTGGTCACCAGCTTCAACCACATGCCGAAGATCCGAACCTGCGCCT
CCACTCCAACCACCTGTACTGCGACTGCCACCTGGCCTGGCTCTCGGATTGGCTGCGACAGCGACGGACAGTTGG
CCAGTTCACACTCTGCATGGCTCCTGTGCATTTGAGGGGCTTCAACGTGGCGGATGTGCAGAAGAAGGAGTACGT
GTGCCAGCCCCCACTCGGAGCCCCATCCTGCAATGCCAACTCCATCTCCTGCCCTTCGCCCTGCACGTGCAG
CAATAACATCGTGGACTGTCGAGGAAAGGGCTTGATGGAGATTCTGCCAACTTGCCGGAGGGCATCGTCGAAAT
ACGCCTAGAACAGAACTCCATCAAAGCCATCCCTGCAGGAGCCTTCACCCAGTACAAGAACTGAAGCGAATAGA
CATCAGCAAGAATCAGATATCGGATATTGCTCCAGATGCCTTCAGGGCCTGAAATCACTCACATCGCTGGTCTCT
GTATGGGAACAAGATCACCGAGATTGTCAAGGGACTGTTTATGGGGCTGGTGTCCCTACAGCTGCTCCTCCTCAA
TGCCAACAAGATCAACTGCCTGCGGGTGAACACGTTTCAGGACCTGCAGAACCTCAACTTGCTCTCCTGTATGA
CAACAAGCTGCAGACCATCAGCAAGGGGCTCTTCGCCCTCTGCAGTCCATCCAGACACTCCACTTAGCCCCAAA
CCCATTTGTGTGCGACTGCCACTTGAAGTGGCTGGCCGACTACCTCCAGGACAACCCCATCGAGACAAGCGGGGC
CCGCTGCAGCAGCCCGCGCCGACTCGCCAACAAGCGCATCAGCCAGATCAAGAGCAAGAAGTTCCGCTGCTCAGG
CTCCGAGGATTACCGCAGCAGGTTTACGAGCGAGTGTTCATGGACCTCGTGTGCCCCGAGAAGTGTGCTGTGA
GGGCACGATTGTGGACTGCTCCAACCAGAAGCTGGTCCGCATCCCAAGCCACCTCCCTGAATATGTACCGACCT
GCGACTGAATGACAATGAGGTATCTGTTCTGGAGGCCACTGGCATCTTCAAGAAGTTGCCAACCTGCGGAAAAT
AAATCTGAGTAACAATAAGATCAAGGAGGTGCGAGAGGGAGCTTTCGATGGAGCAGCCAGCGTGCAGGAGCTGAT
GCTGACAGGGAACCAGCTGGAGACCGTGCACGGGCGCTGTTCCGTGGCCTCAGTGGCCTCAAACCTTGATGCT
GAGGAGTAACCTTGATCGGCTGTGTGAGTAATGACACCTTTGCCGGCCTGAGTTCGGTGAGACTGCTGTCCCTCTA
TGACAATCGGATCACCACCATCACCCCTGGGGCCTTCACCACGCTTGTCTCCCTGTCCACCATAAACCTCCTGTC
CAACCCCTTCAACTGCAACTGCCACCTGGCCTGGCTCGGCAAGTGGTTGAGGAAGAGGCGGATCGTCAGTGGGAA
CCCTAGGTGCCAGAAGCCATTTTTCTCAAGGAGATTCCCATCCAGGATGTGGCCATCCAGGACTTCACCTGTGA
TGGCAACGAGGAGAGTAGCTGCCAGCTGAGCCCGCGCTGCCCGGAGCAGTGCACCTGTATGGAGACAGTGGTGGC
ATGCAGCAACAAGGGGCTCCGCGCCCTCCCCAGAGGCATGCCCAAGGATGTGACCGAGCTGTACCTGGAAGGAAA
CCACCTAACAGCCGTGCCAGAGAGCTGTCCGCCCTCCGACACCTGACGCTTATTGACCTGAGCAACAACAGCAT
CAGCATGCTGACCAATTACACCTTCAAGTAACATGTCTCACCTCTCCACTCTGATCCTGAGCTACAACCGGCTGAG
GTGCATCCCCGTCCACGCTTCAACGGGCTGCGGTCCCTGCGAGTGCTAACCTCCATGGCAATGACATTTCCAG
CGTTCCTGAAGGCTCCTTCAACGACCTCACATCTCTTTCCCATCTGGCGCTGGGAACCAACCCACTCCACTGTGA
CTGCAGTCTTCGGTGGCTGTGCGAGTGGGTGAAGGCGGGGTACAAGGAGCCTGGCATCGCCCGCTGCAGTAGCCC
TGAGCCCATGGCTGACAGGCTCCTGCTCACCAACCCCAACCCACCGCTTCCAGTGCAAAGGGCCAGTGGACATCAA
CATTGTGGCCAAATGCAATGCCTGCCTCTCCAGCCCGTGCAAGAATAACGGGACATGCACCCAGGACCCTGTGGA
GCTGTACCGCTGTGCCTGCCCCTACAGCTACAAGGGCAAGGACTGCACTGTGCCATCAACACCTGCATCCAGAA
CCCCGTGTAGCATGGAGGACCTGCCACCTGAGTGACAGCCACAAGGATGGGTTCAGCTGCTCCTGCCCTCTGGG
CTTTGAGGGGACGCGGTGTGAGATCAACCCAGATGACTGTGAGGACAACGACTGCGAAAACAATGCCACCTGCGT
GGACGGGATCAACAACCTACGTGTGTATCTGTCCGCCTAACTACACAGGTGAGCTATGCGACGAGGTGATTGACCA
CTGTGTGCCTGAGCTGAACCTCTGTGAGCATGAGGCCAAGTGCATCCCCCTGGACAAAGGATTAGCTGCGAGTG
TGTCCTGGCTACAGCGGAAGCTCTGTGAGACAGACAATGATGACTGTGTGGCCACAAGTGCCGCCACGGGGC
CCAGTGCGTGGACACAATCAATGGCTACACATGCACCTGCCCCAGGGCTTCAGTGGACCCTTCTGTGAACACCC
CCCACCCATGGTCTTACTGCAGACACGCCCATGCGACCAGTACGAGTGCCAGAACGGGGCCAGTGCATCGTGGT
GCAGCAGGAGCCCACCTGCCGCTGCCCACAGGCTTCGCCGGCCCCAGATGCGAGAAGCTCATCACTGTCAACTT
CGTGGGCAAAGACTCCTACGTGGAACCTGGCTCCGCCAAGGTCCGACCCAGGCCAACATCTCCCTGCAGGTGGC
CACTGACAAGGACAACGGCATCCTTCTCTACAAAGGAGACAATGACCCCTGGCACTGGAGCTGTACCAGGGCCA
CGTGCGGCTGGTCTATGACAGCCTGAGTTCCCTCCAACCACAGTGTACAGTGTGGAGACAGTGAATGATGGGCA
GTTTCACAGTGTGGAGCTGGTGACGCTAAACCAGACCCTGAACCTAGTAGTGAGACAAAGGAACCTCAAAGAGCCT
GGGGAAGCTCCAGAAGCAGCCAGAGTGGGCATCAACAGCCCCCTCTACCTTGAGGACATCCCCACCTCCACCGG
CCTCTCTGCCTTGCGCCAGGGCACGGACCGGCTCTAGGCGGCTTCACGGATGCATCCATGAGGTGCGCATCAA
CAACGAGCTGCAGGACTTCAAGGCCCTCCACACAGTCCCTGGGGGTGTACCAGGCTGCAAGTCTGCACCGT
GTGCAAGCACGGCTGTGCCGCTCCGTGGAGAAGGACAGCGTGGTGTGCGAGTGCCGCCAGGCTGGACCGGGCC

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FIGURE 1798B

ACTCTGCGATCAGGAGGCCCGGGACCCCTGCCTCGGCCACAGATGCCACCATGGAAAATGTGTGGCAACTGGGAC
CTCATACATGTGCAAGTGTGCCGAGGGCTATGGAGGGGACTTGTGTGACAACAAGAATGACTCTGCCAATGCCTG
CTCAGCCTTCAAGTGTACCATGGGCAGTGCCACATCTCAGACCAAGGGGAGCCCTACTGCCTGTGCCAGCCCGG
CTTTAGCGGCGAGCACTGCCAACAAGAGAATCCGTGCCTGGGACAAGTAGTCCGAGAGGTGATCCGCCGCCAGAA
AGGTTATGCATCATGTGCCACAGCCTCCAAGGTGCCCATCATGGAATGTCGTGGGGGCTGTGGGCCCCAGTGCTG
CCAGCCCACCCGCAGCAAGCGGCGGAAATACGTCTTCCAGTGACGGACGGCTCCTCGTTTGTAGAAGAGGTGGA
GAGACACTTAGAGTGC GGCTGCCTCGCGTGTTCCTAAGCCCTGCCCGCCTGCCTGCCACCTCTCGGACTCCAGC
TTGATGGAGTTGGGACAGCCATGTGGGACCCCTGGTGATTGAGCATGAAGGAAATGAAGCTGGAGAGGAAGGTA
AAGAAGAAGAGAATATTAAGTATATTGTAAAATAAACAAAAAATAGAACTTATTTTTATTATGGAAA

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FIGURE 1799

GCCATGGGCGCGCGCCCGCCTGTTGTTACCGGTATTGTAAGAACAAGCCGTACCCAAAGTCTCGCTTCTGCCGA
GGTGTCCCTGATGCCAAGATTCGCATTTTGGACCTGGGGCGGAAAAAGGCAAAAGTGGATGAGTTTCCACTTTGT
GGCCACATGGTGTGAGATGAATATGAGCAGCTGTCTCTGAAGCCCTGGAGGCTGCCCCGAATTTGTGCCAATAAG
TACATGGTAAAAAGTTGTGGCAAAGATGGCTTCCATATCCGGGTGCGGCTCCACTCCTTCCACGTCATCCGCATC
AACAAGATGTTGTCTGTGCTGGGGCTGACAGGCTCCAAACAGGCATGCGAGGTGCCTTTGGAAAGCCCCAGGGC
ACTTTGGCCAGGGTTCACACTGGCCAAGTTATCATGTCCATCCGCACCAAGCTGCAGAACAAGGAGCATGTGATT
GAGGCCCTGGGCAGGGCCAAGTTCAAGTTTCTGGCCGCCAGAAGATCCACATCTCAAAGAAGTGGGGCTTCACC
AAGTTCAATGCTGATGAATTTGAAGACATGGTGGCTGAAAAGCGGCTCATCCCAGATGGCTGTGGGGTCAAGTAC
ATCCCAATCGTGGCCCTCTGGACAAGTGGCGGGCCCTGCACTCATGAGGGCTTCCAATGTGCTGCCCCCTCTT
AATACTACCAATAAATTCTACTAACTCTCAAAAAAAAAAAAAAAAAAATAGAAAAAAAAAAAAAAAAATAGACCAA
AAAAAAAAAAAAAAAA

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FIGURE 1800

GGCACGAGGGTGAGACGCTGATGGGAGGATGGACGTACTGGTGTCTGAGTGCTCCGCGCGGCTGCTGCAGCAGGA
AGAAGAGATTAAATCTCTGACTGCTGAAATTGACCGGTTGAAAACTGTGGCTGTTTAGGAGCTTCTCCAAATTT
GGAGCAGTTACAAGAAGAAAATTTAAAATTAAAGTATCGACTGAATATTCTTCGAAAGAGTCTTCAGGCAGAAAAG
GAACAAACCAACTAAAAATATGATTAACATTATTAGCCGCCTACAAGAGGTCTTTGGTCATGCAATTAAGGCTGC
ATATCCAGATTTGGAAAATCCTCCTCTGCTAGTGACACCAAGTCAGCAGGCCAAGTTTGGGGACTATCAGTGTA
TAGTGCTATGGGTATTTCTCAGATGCTCAAAACCAAGGAACAGAAAGTTAATCCAAGAGAAATTGCTGAAAACAT
TACCAAACACCTCCCAGACAATGAATGTATTGAAAAAGTTGAAATTGCTGGTCCTGGTTTTATTAAATGTCCACTT
AAGAAAGGATTTTGTATCAGAACAAATTGACCAGTCTTCTAGTGAATGGAGTTCAACTACCTGCTCTGGGAGAGAA
TAAAAAGGTTATAGTTGACTTTTCTCCTCCCTAATATAGCTAAAGAGATGCATGTAGGCCACCTGAGGTCAACTAT
CATAGGAGAGAGTATAAGCCGCCCTCTTTGAATTTGCAGGGTATGACGTGCTCAGGTTAAATCATGTAGGAGACTG
GGGGACCCAGTTTGGCATGCTCATCGCTCACCTGCAAGACAAATTTCCAGATTATCTAACAGTTTCACCTCCTAT
TGGGGATCTTCAGGTCTTTTATAAGGAATCTAAGAAGAGGTTTGATACTGAGGAGGAATTTAAGAAGCGAGCATA
TCAGTGTGTAGTTCTGCTCCAGGGTAAAAACCCAGATATTACAAAAGCTTGGAAGCTTATCTGTGATGTCTCCCG
CCAAGAGTTAAATAAAATCTATGATGCATTGGACGTCTCTTTAATAGAGAGAGGGGAATCCTTCTATCAAGATAG
GATGAATGATATTGTAAAGGAATTTGAAGATAGAGGATTTGTGCAGGTGGATGATGGCAGAAAGATTGTATTTGT
CCCAGGGTGTTCATACCATTAACCATAGTAAATCAGATGGAGGTTATACCTATGATACATCTGACCTGGCTGC
TATTAAACAAAGACTATTTGAGGAAAAAGCAGATATGATTATCTATGTTGTGGACAATGGACAATCTGTGCACTT
CCAGACAATATTTGCTGCTGCTCAAATGATTGGTTGGTATGACCCTAAAGTAACTCGAGTCTTCCATGCTGGATT
TGGTGTGGTGCTAGGGGAAGACAAGAAAAAGTTTAAACACGTTCCGGTGAAACAGTGCGCCTCATGGATCTTCT
GGGAGAAGGACTAAAACGATCCATGGACAAGTTGAAGGAAAAAGAAAGAGACAAGGTCTTAACTGCAGAGGAATT
GAATGCTGCTCAGACATCCGTTGCATATGGCTGCATCAAATATGCTGACCTTTCCCATACCGGTTGAATGACTA
CATCTTCTCCTTTGACAAAATGCTAGATGACAGAGGAAATACAGCTGCTTACTTGTGTATGCCTTCACTAGAAT
CAGGTCTATTGCACGTCTGGCCAATATTGATGAAGAAATGCTCCAAAAGCTGCTCGAGAAACCAAGATTCTTTT
GGATCATGAGAAGGAATGGAACTAGGCCGGTGCATTTTACGGTTCCCTGAGATTCTGCAAAAGATTTTAGATGA
CTTATTTCTCCACACTCTCTGTGATTATATATATGAGCTGGCAACTGCTTTCACAGAGTTCTATGATAGCTGCTA
CTGTGTGGAGAAAGATAGACAGACTGGAAAAATATTGAAGGTGAACATGTGGCGTATGCTGCTATGTGAAGCAGT
AGCTGCTGTGATGGCCAAGGGGTTTGATATCCTGGGAATAAAACCTGTCCAAAGGATGTAAATCCTTCATAGGTTT
GAACACTGTGTGTTTTTACCAAAGTGGCCATTGGCACTGTTTGCTTTTTTACAATCATGTGGACACAAGCATAAG
TAAAGAAAATTTGTCAACCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1801

MDVLVSECSARLLQQEEEIKSLTAEIDRLKNCGCLGASPNLEQLQEENLKLKYRLNILRKSLQAERNKPTKNMIN
IISRLQEVFGHAIKAAYPDLENPPLLVTSPQQAQFGDYQCNSAMGISQMLKTKEQKVNPREIAENITKHLPDNEC
IEKVEIAGPGFINVHLRKDFVSEQLTSLLVNGVQLPALGENKKVIVDFSSPNIAKEMHVGHLRSTIIGESISRLF
EFAGYDVLRLNHVGDWGTQFGMLIAHLQDKFPDYLTVSPPIGDLQVFYKESKKRFDTEEEFKKRAYQCVVLLQGK
NPDITKAWKLICDVSROELNKIYDALDVSLIERGESFYQDRMNDIVKEFEDRGEVQVDDGRKIVFVPGCSIPLTI
VKSDGGYTYDTSDLAAIKQRLFEEKADMIIYVVDNGQSVHFQTIFAAAQMIGWYDPKVTRVFHAGFGVVLGEDKK
KFKTRSGETVRLMDLLGEGLKRSMCKLKEKERDKVLTAEELNAAQTSVAYGCIKYADLSHNRLNDYIFSFDKMLD
DRGNTAAYLLYAFTRIRSIARLANIDEEMLQKAARETKILLDHEKEWKLGRCILRFPEILQILDDFLHLTLCDY
IYELATAFTEFYDSCYCVEKDRQTGKILKVNMRMLLCEAVAAVMAKGFIDILGIKPVQRM

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FIGURE 1802

CAGTTCACAGTGTTTCATCAGGCGAGATACTTTTGGACCCACAAAGCCAGTTTTTTGGGGGGATGCTCAGTGTCTA
CCTGCAGTGCCAAAGTTTTGCTTGAACAGCCCTCTTCTGCCGCGCCTCCCAGCTCCACCCCTATCACGTGGGTG
CTGGCTGCTTCTGCGTGAGGAGCTTCTCTGATCACCTGTAGCATCTTTAGTGCCTTCGTCCAGTCGGCCTGCAA
ATCCCATTTCCAGAGAGGCTTGGGCAGGGCCCACTTGCCACTTGCCCTGTGCCAGAGCGTTGGGGGCAGATG
GCAGCCAGGGGAAGAAGGGAGGTGGGAAGGGCCGCCACCGCTTGAGGGTCCCCTCCCTTGAGAGGAGGCCCAT
GGCAGTTTTCTGAGTTCTTGATCCACTTTGGTTTAAACAACCTTTGTGAAGCTATGTGAGATTTGACTGCATTT
CAAAAGACAAAACACATGTTTTTTCTGATTTGCTCTTTGCCTTTCAGCGACGCTTTCAGATACTTTGTGAGTGT
CTACTCTGTGCTAGGTGCTGAGTAGACTGGGATGTGTGTGGCTCCATCCCTGGCTGGAAGAGCTTTGAGTCCTGT
CTGCTGACTTCACTGAAGGAGTTTCTCTCTTGCTTCATTCTTCTCCCGGGGGTTCAGCTGGGTAGGAGCAGACT
TGCCCTGCCTTCCCTCTAGGCAGAAAGTTTTCTGCAAATGAAAGAATCTGCCATTCTCTTTTGCTATGATGATGA
TGATTATCTGACATGACCCGCGGGTACTGAAGCCACAGTCCTCTCTGTTCACTGTTCTCTCCTTGAGTCATATC
TATGGCCTGAGGACGTCTGTATCCAGCTCCTTTTCTTACAATGGTAGACACTTCCCCAGGCAGTGGGTGGGTGAG
GGTGGCCAGTCACTCTCCTAGCTGTCTTGCTGGGGACTTAGATTTACCCCATCCAGGACTGTGGTTCGCTATTC
TGTGAGCGATTGATGGCGCATATGCAGAACTCCCTGGAGTCATGGCTCTAGAAAGTGTCCAGGCCCCATCGTGAC
AATGGTGCCAAGCACCGGGCTGGTGACCAGTGCCTAAACACACACGCTCCTTTAATCCTTACGGCAAGCCTGTGA
GGCGGATAGGACCAGCCCTGATCTATAGTGAGAAAATTAAGGTTTCAGAGGGAGAAGGTCCAAATAGTGGCCAAGC
TGGGACTGAGATCTCGAGTTTGGGTTTGGTTTGGTTTGGTTTGGTTTCTTCCCTCGTGTCCATGACTTTTCT
CTGCCATTAGCAGGGAAGTGTGCGGAGGGCTTCCAGGGAATCAAGTGACCCCTCCCTCTGAATTCGGTGCCTCTT
CCCCCGCCCCCTTGCTCACACATTTTCAGTAGGTTCACAGGCCAAATGGCAGCCCAAAGGTGGGCAGAGATTTTTT
TTTCTTCCCCCTCACCCCTGCTTATTAACACAATTGTGACAACCTACTTTACCTTACATCCCAGGGCAAACGGACAG
CTTGCGGTACCTCCAAAAATTTGGAAAACCGTGAGTCTAAGACCACCTCTTGATAAAAGAGGCCTTTGCTCACAT
GTTCTGCTCGGAATCTTTCTTTGCCATTGGTGGGTGTATGTCGTCCCAGCTGAGACTGCGGGAGAGCTGAGCTCC
AGCTTAAACCGCTTTTAAATGGCCCTTCCCTACTGGGGGATCGCTGGAGCCCATGCCAGGTTACGGTAGTCATTTT
AAACCTCTGCCACAAGGCCACGCCATAGAATCAATTTCCAAGTCAATGTTCTTGCCCTAAAATGTTTGCGCCCA
CTGAGGATTTTCAATACCAGGTGGAAGATGGGGGAACATATGCCACGTTAAAGAGCAAGTGCTGAGTGTGCCAGGA
CTTGAGAAGGACCTTAGGCTGAGGAGTGGACAGTCTGGTATTTATTTGCTCTCCCAAGTACCCAGCACAGAGT
GGGAAAAAGAAGAACTGCTCCTGCCTTCCAGTAGCTGGCAACTTGACATCAAGAACAAAACATTTCGTAGCTGG
ACCCCGTCTTTTCATCGTGCCCAAGTCTTACATGTTGGCTTAAGCTGCCCCCTTGAGGGCCGTACCTTTCTCTT
TGGACTGTGACAGTGGACACCTAACAGCCTGAGCCATGTGTGGCTGTCTTATCCCCCAAGGGTTGTCCAGGCCCG
TTCTGCAGGGCTGTTGTGTAGACTGCAGACATCCATACCTCACCACAGACCAAAGATGACCTCGTGTGACTGT
GGGCTGATGAGAGGTAGAGCAGCATGCATCGAGGCCTGAGGGTGCAGGGCGCCCTCTCTTGCCCTGGAGGAATTG
CTCCTAACTAGAGTAAGTTTCCACGAGGGTCCCAGGCAGAGCTGCAGAGCTGGAACCGGAGGCTCCACAGTCCTT
GCCTGCTCATGGACCTCCTTCAGAGCACCTTTCTACAGACTGGACTGCCAGCTCCGTGGGGTGGCATCTGGTTT
CTGGTGCTATTCTGCCAAGTTATCGAGCTCCTCCTCATGTTTCAACATTCCATCTTCCCGTTTCTATCCTCGACT
CCAAAGTAAGCCTTCTTAGCTCCAATCAGGGATGAGGGGCTCAACCTCTTCTGTCTCAAAGAGGCCAAACGCAG
TGCCACAGTCGGTAGCCTTCACTTTTAGATGTCTATTTCATGTAAAAAAGAAGGTGCCCCCACCAGGCTTACATC
AGCAATAAGCAATTCTAATGCAACGATGGTGTCCACATTTTACCCAGTGTGTGCCATGTATGCCTTTGTGCC
GTGTAATTATTGTTAGCGCCCCCTTCACTTAGAGGGGTGATGATAAACTGTGGCCACCTTGATTACAACCCACAT
TTCTTGCTTTGGGGAGCTTCCAAGTAACAGGCCATTTCTTACCTCCCTCCAGGAACAGTGGGCACTGCCACCAC
CTCGTGTCTGCTCATAGGATGACGCTGGAGATCCCCACACTTACTCTACCCCTCTTGGCAAATTGGCATTCCGGTG
GTGGTTTTTGTTCCTTTAACACATTAAATAAATGAGTATATAGGATGTGAGGGGAGGGGTGAGAACAACCTAGCT
GTAGCATGTGTAGGCTATATACTTTACCATTTGACTTCTTTCTTTTTTTTTTTTTTAAATAAAAAAAGTGCTTGA
CTGGTTTCAAGCTTCATCATG

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FIGURE 1803

GGGGCCTGGTGTGATTCCGTCCTGCGCGGTTGTTCTCTGGAGCAGCGTTCTTTTATCTCCGTCCGCCTTCTCTCC
TACCTAAGTGCGTGCCGCCACCCGATGGAAGATTTCGATGGACATGGACATGAGCCCCCTGAGGCCCCAGAACTAT
CTTTTCGGTTGTGAACTAAAGGCCGACAAAGATTATCACTTTAAGGTGGATAATGATGAAAATGAGCACCAGTTA
TCTTTAAGAACGGTCAGTTTAGGGGCTGGTGCAAAGGATGAGTTGCACATTGTTGAAGCAGAGGCAATGAATTAC
GAAGGCAGTCCAATTAAAGTAACACTGGCAACTTTGAAAATGTCTGTACAGCCAACGGTTTCCCTTGGGGGCTTT
GAAATAACACCACCAGTGGTCTTAAGGTTGAAGTGTGGTTCAGGGCCAGTGCATATTAGTGGACAGCACTTAGTA
GCTGTGGAGGAAGATGCAGAGTCAGAAGATGAAGAGGAGGAGGATGTGAACTCTTAAGTATATCTGGAAAGCGG
TCTGCCCTGGAGGTGGTAGCAAGGTTCCACAGAAAAAAGTAAAACCTTGCTGCTGATGAAGATGATGACGATGAT
GATGAAGAGGATGATGATGAAGATGATGATGATGATGATTTTGATGATGAGGAAGCTGAAGAAAAAGCGCCAGTG
AAGAAATCTATACGAGATACTCCAGCCAAAAATGCACAAAAGTCAAATCAGAATGGAAGAACTCAAAACCATCA
TCAACACCAAGATCAAAAGGACAAAGATCCTTCAAGAAACAGGAAAAAAGTCTCTAAACACCAAAAGGACCTAGT
TCTGTAGAAGACATTAAAGCAAAAAATGCAAGCAAGTATAGAAAAAGGTGGTTCTCTTCCCAAAGTGGAAGCCAAA
TTCAATCAATTATGTGAAGAATTGCTTCCGGATGACTGACCAAGAGGCTATTCAAGATCTCTGGCAGTGGAGGAAG
TCTCTTTAAAGAAAATAGTTTAAACAATTTGTTAAAAAATTTTCCGTCTTATTTCATTTCTGTAACAGTTGATATC
TGGCTGTCCTTTTTATAATGCAGAGTGAGAACTTTCCCTACCGTGTTTGATAAATGTTGTCCAGGTTCTATTGCC
AAGAATGTGTTGTCCAAAATGCCTGTTTAGTTTTTAAAGATGGAAGTCCACCCTTTGCTTGGTTTTAAGTATGTA
TGGAATGTTATGATAGGACATAGTAGTAGCGGTGGTCAGACATGGAAATGGTGGGGAGACAAAAATACACATGTG
AAATAAACTCAGTATTTTAATAAAGTAAAAAAAAAAAAAAAAACCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1804

MEDSMDMDMSPLRPQNYLFGCELKADKDYHFKVDNDENEHQLSLRTVSLGAGAKDELHIVEAEAMNYEGSPIKVT
LATLKMSVQPTVSLGGFEITPPVVLRLKCGSGPVHISGQHLVAVEEDAEESEDEEEEDVKLLSISGKRSAPGGGSK
VPQKKVKLADEDDDDDDDEDDDDDDDDDDFDDEEAEEKAPVKKSIRDTPAKNAQKSNQNGKDSKPSSTPRSKGQ
ESFKKQEKTPKTPKGPSSVEDIKAKMQASIEKGGSLPKVEAKFINYVKNCFRMTDQEAIQDLWQWRKSL

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FIGURE 1805

GGGCGGCGCCCAATGGGCTGCGCGGAGCGTCACTTCCC GG CAGCGGGAGGCGAGTGGCGAGTGGCGAGTGGCGAG
TGTCAGGGGGGCGGCCGGCGGGGGCGGGGCGGCCGGAGGAGGCGTTGGCAGCGGGCTCGGACCCACGCGGCGCCG
CGGCGCGCTGGCCTGCAGCGCTCCCACCCCGGCGGCGGCACGATGCCCTTTGACTTCAGGAGGTTTGACATCT
ACAGGAAGGTGCCCAAGGACCTTACGCAGCCAACGTACACGGGGCCATTATCTCCATCTGCTGCTGCCTCTTCA
TCCTCTTCTCTTCTCTCGGAGCTCACCGGATTTATAACGACAGAAGTTGTGAACGAGCTCTATGTCGATGACC
CAGACAAGGACAGCGGTGGCAAGATCGACGTCACTCTGAACATCAGTTTACCCAATCTGCACTGCGAGTTGGTTG
GGCTTGACATTTCAGGATGAGATGGGCAGGCACGAAGTGGGCCACATCGACAACCTCCATGAAGATCCCGCTGAACA
ATGGGGCAGGCTGCCGCTTCGAGGGGCGAGTTCAGCATCAACAAGGTCCCCGGCAACTTCCACGTGTCCACACACA
GTGCCACAGCCCAGCCACAGAACCCAGACATGACGCATGTCTATCCACAAGCTCTCCTTTGGGGACACGCTACAGG
TCCAGAACATCCACGGAGCTTTCAATGCTCTCGGGGGAGCAGACAGACTCACCTCCAACCCCCCTGGCCTCCACG
ACTACATCCTGAAGATTGTGCCCACGGTTTATGAGGACAAGAGTGGCAAGCAGCGGTACTCCTACCAGTACACGG
TGGCCAACAAGGAATACGTGCGCTACAGCCACACGGGCGCATCATCCCTGCAATCTGGTTCCGCTACGACCTCA
GCCCCATCACGGTCAAGTACACAGAGAGACGGCAGCCGCTGTACAGATTTCATACCACGATCTGTGCCATCATTG
GCGGGACCTTCACCGTCGCCGGCATCCTGGACTCATGCATCTTCACAGCCTCTGAGGCCTGGAAGAAGATCCAGC
TGGGCAAGATGCATTGACGCCACACCCAGCCTAATGGCCGAGGACCCTGGGCATCGCCAGCCTTGCTCCAGTGC
CCTGTCTCCTTTGGCCCTCAATCTGGTCCCAAATCTGGCTGTGTCCCAAAGGGTGTGTGGGAAGTGGGGGGAAG
TAGAGGATGGCTCGATGTTTTGCAGCTACCTCTTTCCCGTGTTTTCTTTTAGACAAATTACACTGCCTGAAGT
TGCAGTTCCCTTTCCCTGGGGAGCCCCAAGAACAGAGTCAGGCAAGGGGTGGGGAGTCCAGGGGAACATCCCAG
AATGCATATCGATCAGCTCTCAGCCAGGCTTCGACAATCTCGCAGCCCCCACTAGGTGGACACATTAATGATTTG
GTTTCTCCCCTGGGCAGCCAACCTGCCCCAGAGGCACCAGACCTGGGCTTTAGCTTTGGGACCAGGCTGCCCAA
AGGTACTCCTTTATACACCCGGCACCTTCCACGAAAGATGGTACTTCCCAAGCAAGCCCCTATGATTTGTCTACTA
TAGATGGAAATGTGTGGCATGCACATGAGTTGAAATCTTTTATGCATTTTTTTGAAGAAAAAAAAAAAAACAAC
TCTGAGGACATAGGGGATGTCAGTTTCTATGGAAGAGACACCTCTGACCCGTTATTCTTATAATCAAAATCTGA
AGGGAAAAAATGTTTTAGTTCTTTCCCCACTCGTTGGGTTCAACTAGATTAAAAGGCTGATTTTCAG

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FIGURE 1806

MPFDFRRFDIYRKVPKDLTQPTYTGAIISICCLFILFLFLSELTGFITTEVVNELYVDDPDKDSGGKIDVSLNI
SLPNLHCELVGLDIQDEMGRHEVGHIDNSMKIPLNNGAGCRFEGQFSINKVPGNFHVSTHSATAQPQNPDMTTHVI
HKLSFGDTLQVQNIHGAFNALGGADRLTSNPLASHDYILKIVPTVYEDKSGKQRYSYQYTVANKEYVAYSHTGRI
IPAIWFRYDLSPITVKYTERRQPLYRFITTICAIIGGTFTVAGILDSCIFTASEAWKKIQLGKMH

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FIGURE 1807

ATGGCGTATCACGGCCTCACTGTGCCTCTCATTGTGATGAGCGTGTTCTGGGGCTTCGTCGGCTTCTTGGTGCCT
TGGTTCATCCCTAAGGGTCCTAACCGGGGAGTTATCATTACCATGTTGGTGACCTGTTCAGTTTGCTGCTATCTC
TTAGCTAGTTTGAGCACAGGACATAATCACTTCCCAGGGGCCTGGGTGCACCGCTTTGGTTTCCAACCAAACCAT
GACTCCATGAGCGTGAACCAGGACTATTCTGCTCACCTTGTGTCTGCACACAGTAGGTGCTTAACAAACACCTGG
GGTATCTTCAAGTCCATTCCCTCATCTGACCCTCACAGCAGCCCTCTGAGGAAGGCAGCCTGCACACTGGAGGAG
ACAGGTCTGCACTCAGCCATTCTGAAGACGGTAAAAGTGAGAGCCCTGGATGCCATGGGGGCAAGGACCATATCT
GTTCTGCTTTTTTCTGAAGTCCCTGACCCAATTTGTGCCCGGTACATTGAAGAAGCTCAGGACATGGCTATTATT
TCAATCAAGCTGAAATCTACTGAGCTGAGCTGGCCCAACCAGGAATTCAAGATAAGACAGTAG

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FIGURE 1808A

GAAGCCGCCCATCCCGCCCCAAGTGGAGGAAGAGTATTACACCATCGCCGAATTCCAGACAACCATCCCAGACGG
CATCAGCTTCCAGGCAGGCCTGAAGGTCGAGGTGATCGAGAAAACTTGAGTGGCTGGTGGTACATTTCAGATTGA
AGATAAGGAAGGGTGGGCCCCGGCCACCTTCATTGACAAGTACAAGAAGACGAGCAACGCGTCGAGACCCAACTT
TCTGGCTCCCCTGCCCCACGAGGTGACCCAGCTCCGGCTGGGGGAAGCAGCAGCGCTGGAGAACAACACGGGCGAG
CGAAGCCACGGGCCCCCTCCCGCCCCCTGCTGACGCACCGCATGGTGTCTATGGACTCGGGGTGGCCATGGTCTAA
AGACTGGAAGGGCAGTAAGGATGTCTGAGGAAGGCATCTTCAGACATGTCTGCGTCAGCAGGCTACGAGGAGAT
CTCAGACCCCGACATGGAGGAGAAGCCAGCCTCCCTCCGCGGAAAGAATCCATCATCAAGTCGGAGGGGGGAGCT
GCTGGAGCGGGAGCGGGAGCGGCAGAGGACGGAGCAGCTCCGGGGCCCCACTCCCAAGCCTCCGGGCGTGATTTT
GCCGATGATGCCAGCCAAACACATCCCTCCAGCCCGGGACAGCAGGAGGCCAGAGCCCCAAACCTGACAAAAGCAG
ACTGTTCCAGCTGAAAAATGACATGGGGCTGGAGTGTGGCCACAAGGTCTTGCCCAAGGAAGTGAAGAAGCCCAA
CCTCCGGCCCCATCTCCAAATCCAAAACCTGACCTGCCAGAGGAGAAGCCAGATGCCACTCCCCAGAATCCCTTCTT
GAAGTCCAGACCTCAGGTTAGGCCAAAACAGCTCCTTCCCCAAAACGGAGCCACCTCAGGGCGAAGACCAAGT
CGACATCTGCAACCTCAGGAGTAAGCTCAGGCCTGCCAAGTCCCAAGACAAGTCTTGTGGATGGGGAGGGCCC
CCAGGCAGTAGGGGGCCAAGACGTGGCCTTCAGCCGAAGCTTCTCCAGGAGAGGGGCTGGCCGCGCCCCAGGA
CAGGACGGGCAAACAGGATGGTCTCAGCCAAAAGAGATTTCTGTCAGAGCCCTCCGAGGCCAGCCAAGACCAC
AGATCCTGTGTCTAAGAGCGTGCCTGTTCTCTCCAAGAGGCTCCCCAGCAGAGACCTGTGGTCCCACCCCGCAG
ACCACCTCCCCCAAAGAAAACCTCTTCGTCATCCAGGCCGCTCCAGAGGTCCAGAGTCCACAGTGTGAAGGCCA
CGAAAGCAGGGCAGCTCCCACCCAGGCCGCTGCTCTCTCGTCCCTCCAAAAGCCAAACCTTTTCTCTCCAACCTC
TTTGGGGGGCCAGGATGACACGCGAGGCCAAAGGCAGCCTGGGGCCATGGGGGACCGGCAAGATTGGAGAAAACAG
GGAGAAAGCAGCTGCAGCCTCTGTCCCCAATGCCGACGGCCTGAAGGACTCTTTGTATGTGGCCGTGGCCGACTT
TGAAGGAGACAAAGACACCAGCAGCTTCCAGGAAGGGACAGTGTGTTGAAGTCCGGGAGAAGAACAGCAGTGGCTG
GTGGTTCTGCCAGGTCTGAGCGGAGCCCCCTTCTGGGAAGGGTGGATTCTTCCAACCTATCTCAGAAAGAAGCC
GTAGCCGACTCCCTTTCTGCCTAGAGGGCCCCGCTGGTCTTGCTGGCTTTACCCACGTATTTAATACGCCTCTTA
ATTTATCATTCTCCACGCAGCTTCCAAGGCAGACAGACTCTGGGGTACTGTGACTTCTTGCCTCCCATGGGTGGA
GAGTGAGTTTCGGACACCTCGGGCGCCCCCTGGGCCTGATCCCTCCTATCACAGCATCACTGGAGGCTCAGAACCC
ACAGCCTTTGCTTTCTGTCCATGTGAGCATCCCTGCCTTAAGAGAACTCCTCCTGGCCAATGGCATTGCCACCCA
GCAGTGGGACCAAGACTCTCCAAGACCTCCAGGACTGGATCCCATTGCCCTGGAGAACTCCAGCAAGGGTCTCTC
ATGGCTTGGACATGGCACAGTAAGGGGCAGCCAACCCAGTCCATGATGACTTTTGCTCCAACCTCTTCATGTTTC
TAAAAGCCAGTGGCTTTATTCACTCCTCCTAAATTGCCTGCTACCAGAAGGAACCTCATCCTGAAGAAATGCAT
TCCATTACAGTTCAGGGAAAGTGTCCCCTTCCCCAAAGCCTCAGGCCCCGTGGGCCTCTGAGGTTCCACTGGAT
GCGGCTCCCCCAGGAGTGGGCTGGAGATCCGCTCAGCCGCCCTGCCTCCCACCTTCTATCTTGGGACCGTGCTC
AGCCCTGAAGGGTGGTTCCAGCCCCGCGTATGCTGCGCTTTGCTGCTGCAGGCTCCGGTCCCTCCAGGGCTTTTC
AATGAGAGTTCCACCCCAACTTGGAGCATTTTCATTTTTGCTACCTAAAGCAAGAATCTCAAAGTTTGTGTTGAA
TAAGAGGCCCATTCACAAGTCGTGCCCTTGTGAGCACCCCTTTGCTGAGTGCCTCGTGGGTGCCAAACACTGTAC
TTGGCGCTTTGCATTTCATGCTTTGACCCCTCACAACCTCCCTTTATAGATGAGGAAATTCAGCTCCATGTGCCCA
AGGACACACCAGCCAGGAGGAAGAGGGAAGAGGATTTGAGTCCAGGCCTGCCTGACTTCAGTGCCTGTGCCCTCC
CCTCTGTAAAAGACAAACCAGGCAGGGAAGAGATAGAAGCTGGCTAAGTGGTGGCCAAGTGGCTTCATTGTGAGG
GGGTGAGGGGGCATTCTGTGGCTGCTCCACACCCACCATCCCTCCAGCCCACAGCAGCCTATACCAAAGGCTGC
CCTGGACTCAACAGCTGCATCTCCATGACAGGAGAATGCCAGGGTCTGTGGTGGTGGTACACAGAGCCCTGTTCCCT
CTTCTAAGCTGTTGCCCTTGGGGAATAGAGCTTATGGAGCAACGGGAGCTGAGGTGGCCTCGAGGGCCAGCCTG
GAGGGCTCTGAGCATAGCATGCAGCGGTCCCATAGGGAGGCAGGTAACCAAGGGCCAGGCAGAGCTGCTTCCCTGT
GCCTCTCCGGCATTGTGTAATGTTTTTTTCTTTTTCACGCACTGCCAAATCTGTTTTTCTCCCTTGAAGAAACCCA
GGGCAGATGTGGTCATCTGTCAAACCTGAGGTCTGGAGAGGCATGACTAAATCACTGCAGAAGCAAAATCAGGACC
CAGCATTTCTAGCTCCCAGCCCAGAGTAAGAGAGCAGAGCAGAACCCCTTCCCATTCTACCCGACCGAGGCAGCC
CTGCCCTGCCCTGCCCGCCCCCTGCCCTGCCCTGCCCTGCCCTGCCCTGCCCTGCCCTGCCCTGCCCTGCCCTGCCCT
GATACTTTTGGACCCACAAAGCCAGTTTTTTGGGGGGATGCTCAGTGTCTACCTGCAGTGCCAAAGTTTTGCTTG
AACAGCCCTCTTCTGCCGCGCTCCAGCTCCACCCCTATCACGTGGGTGCTGGCTGCTTCTGCGTGAGGAGCT
TCTCTGATCACCTGTAGCATCTTTAGTGCCTTCGTCCAGTCGGCCTGCAAAATCCCATTTCCAGAGAGGCTTGG

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FIGURE 1808B

GCAGGGCCCCACTTGCCACTTGCCCTGTGCCAGAGCGTTGGGGGCAGATGGCAGCCAGGGGAAGAAGGGAGGTG
GGGAAGGGCCGCCACCGCTTGAGGGTCCCTCCCTTGAGAGGAGGCCCCATGGCAGTTTTCTGAGTTCTTGATC
CACTTTGGTTTAAACAACTTTTGTGAAGCTATGTGAGATTTGACTGCATTTCAAAAGACAAAACACATGTTTTTT
TCTGATTTGCTCTTTGCCTTTTACGCGACGCTTTTACAGATACTTTGTGAGTGTCTACTCTGTGCTAGGTGCTGAGTA
GACTGGGATGTGTGTGGCTCCATCCCTGGCTGGAAGAGCTTTGAGTCTGTCTGCTGACTTCACTGAAGGAGTTT
CTCTCTTGCTTCATTCTCTCCCGGGGGTACAGCTGGGTAGGAGCAGACTTGCCCTGCCTTCTCTAGGCAGAA
AGTTTTCTGCAAATGAAAGAATCTGCCATTCTCTTTTGTATGATGATGATGATTATTCTGACATGACCCGCGG
GTACTGAAGCCACAGTCTCTCTGTTCAGTGTCTCTCTCTTGAGTCATATCTATGGCCTGAGGACGTCTGTATCC
AGCTCCTTTTCTACAATGGTAGACACTTCCCCAGGCAGTGGGTGGGTGAGGGTGGCCAGTCACTCTCTAGCTG
TCCTTGCCCTGGGGACTTAGATTTACCCCATCCAGGACTGTGGTGCCTATTCTGTGAGCGATTGATGGCGCATATG
CAGAACTCCCTGGAGTCATGGCTCTAGAAAGTGTCCAGGCCCATCGTGACAATGGTGCCAAGCACCGGGCTGGT
GACCAGTGCCTAAACACACACGCTCCTTTAATCCTTACGGCAAGCCTGTGAGGCGGATAGGACCAGCCCTGATCT
ATAGTGAGAAAATTAAGGTTTACAGAGGAGAAGGTCCAAATAGTGGCCAAGCTGGGACTGAGATCTCGAGTTTGGG
TTTGTGGTGGTTTGTGTTGTTGTTCTTTCCCTCGTGTCCATGACTTTTCTCTGCCATTAGCAGGGAAGTGTGCG
GAGGGCTTCCAGGGAATCAAGTGACCTCCTCTGAATTTGCGGTGCCTCTTCCCCCGCCCCCTTGCTCACACATT
TCAGTAGGTACAGGCCAAATGGCAGCCCAAAGGTGGGCAGAGATTTTTTTTTTCTTCCCTCACCCCTGCTTAT
TAACACAATTGTGACAACTACTTTACCTTACATCCCAGGGCAAACGGACAGCTTGCGGTACCTCCAAAATTTGG
AAAACCTGAGTCTAAGACCCTCTTGATAAAAGAGGCCTTTGCTCACATGTTCTGCTCGGAATCTTTCTTTGC
CATTGGTGGGTGTATGTCGTCAGCTGAGACTGCGGGAGAGCTGAGCTCCAGCTTAAACCGCTTTTAATGGCCC
TTCCCTACTGGGGGATCGCTGGAGCCCATGCCAGGTTACGGTAGTCATTTTAAACCTCTGCCACAAGGCCACGCC
ATAGAATCAATTTCCAAGTCAATGTTCTTGCCCTAAAATGTTTGCGCCCACTGAGGATTTTATTACCAGGTGGA
AGATGGGGGAACATATGCCACGTTAAAGAGCAAGTGTGAGTGTGCCAGGACTTGAGAAGGACCTTAGGCTGAGG
AGTGGACAGTCTGGTATTTATTTGCTCTTCCCAAGTACCCAGCACAGAGTGGGAAAAAGAAGAACTGCTCCTG
CCTTCCAGTAGCTGGCAACTTGACATCAAGAACAAAACATTCGTAGCTGGACCCCGCTCTTTCATCGTGCCCA
AGTCTTACATGTTGGCTTAAGCTGCCCCCTTGAGGGCGTACCTTTCTCTTTGGACTGTGACAGTGGACACCTAA
CAGCCTGAGCCATGTGTGGCTGTCTTATCCCCCAAGGGTTGTCCAGGCCCCTTCTGCAGGGCTGTTGTGTAGACT
GCAGACATCCATACCTCACCACAGACCAAAGATGACCTCGTGTGAGACTGTGGGCTGATGAGAGGTAGAGCAGCA
TGATCGAGGCCTGAGGGTGCAGGGCGCCCTCTCTTGGCCTGGAGGAATTGCTCCTAACTAGAGTAAGTTTCCAC
GAGGGTCCCAGGCAGAGCTGCAGAGCTGGAACCGGAGGCTCCACAGTCTTGCCTGCTCATGGACCTCCTTCAGA
GCACCTTTCTACAGACTGGACTGCCAGCTCCGTGGGGTGGCATCTGGTTTCTGGTGCTATTCTGCCAAGTTATC
GAGCTCCTCCTCATGTTTCAACATTCCATCTTCCCGTTTCTATCCTCGACTCCAAAGTAAGCCTTCTTAGCTCCA
ATCAGGGATGAGGGGCTCAACCTCTTCTGTCTCTCAAAGAGGCCAAACGCAGTGCCACAGTCGGTAGCCTTCACTT
TTAGATGTCCTATTTCATGTAAAAAGAAGGTGCCCCCACCAGGCTTACATCAGCAATAAGCAATTCTAATGCAAC
GATGGTGTCCACATTTTACCCAGTGTGTGCCCATGTATGCCTTTGTGCCCGTGTAAATTATTGTTAGCGCCCCCTT
TCCTTAGAGGGGTGATGATAAACTGTGGCCACCTTGATTACAACCCACATTTCTGCTTTGGGGAGCTTCCAAG
TAACAGGCCATTTCTTACCTCCCTCCAGGAACAGTGGGCACTGCCACCACCTCGTGTCTGCTCATAGGATGACG
CTGGAGATCCCCACACTTACTCTACCCTCTTGGCAAATTGGCATTCCGGTGGTGGTTTTTGTTCCTTTAACACA
TTAAATAAATGAGTATATAGGATGTGAGGGGAGGGGTGAGAACAACCTAGCTGTAGCATGTGTAGGCTATATACTT
TACCATTGACTTCTTTCTTTTTTTTTTTTTTAAATAAAAAAAGTGCTTGACTGGTTTCAAGCTTCATCATG

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FIGURE 1809

MDSGLPWSKDWKGSKDVLRKASSDMSASAGYEEISDPDMEEKPSLPPRKESIIKSEGELLERERERQRTEQLRGP
TPKPPGVILPMMPAKHIPPARDSRRPEPKPKDKSRLFQLKNDMGLECGHKVLAKEVKKPNLRPI SKSKTDLPEEKP
DATPQNPFLKSRPQVRPKPAPSPKTEPPQGEDQVDICNLRSLRPAKSQDKSLLDGEGPQAVGGQDVAFSRSFLP
GEGPGRAQDRTGKQDGLSPKEISCRAPPRPAKTTDPVSKSVPVPLQEAFQQRFPVFPRRPPPPKKTSSSSRPLPE
VRGPQCEGHESRAAPTTPGRALLVPPKAKPFLSNSLGGQDDTRGKGS LGPWTGKIGENREKAAAASVPNADGLKD
SLYVAVADFEGDKDTSSFQEGTVFEVREKNSSGWWFCQVLSGAPSWEGWIPSNYLRKKP

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FIGURE 1810

TTGGCTGATTGCAATTCTGGCCCAACTCAACCCTCTCTTTGGACCGCAATTGAAAAATGAAACCATCTGGTATCT
GAAGTATCATTGGCCTTGAGGAAGAAGACATGCTCTACAGTGCTCAGTCTTTGAGGTCACGAGAAGAGAATGCCT
TCTAGATGCAAAATCACCTCCAAACCAGACCACTTTTCTTGACTTGCCTGTTTTGGCCATTAGCTGCCTTAAACG
TTAACAGCACATTTGAATGCCTTATTCTACAATGCAGCGTGTTTTCCCTTTGCCTTTTTTGCACTTTGGTGAATTA
CGTGCCTCCATAACCTGAACTGTGCCGACTCCACAAAACGATTATGTACTCTTCTGAGATAGAAGATGCTGTTCT
TCTGAGAGATACGTTACTCTCTCCTTGGAATCTGTGGATTGGAAGATGGCTCCTGCCTTCTCACGTGGGAATCAG
TGAAGTGTTTAGAACTGCTGCAAGACAAACAAGACTCCAGTGGGGTGGTCAGTAGGAGAGCACGTTTCAGAGGGA
AGAGCCATCTCAACAGAATCGCACCAAACTATACTTTTCAGGATGAATTTCTTCTTTCTGCCATCTTTTGAATAA
ATATTTTCCTCCTTTCTATGGA

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FIGURE 1811

GTCCCCAACATGGCGGCTCCCCAAGACGTCCACGTCCGGATCTGTAACCAAGAGATTGTCAAATTTGACCTGGAG
GTGAAGGCGCTTATTCAGGATATCCGTGATTGTTTCAGGACCCCTTAAGTGCTCTTACTGAACTGAATACTAAAGTA
AAAGAGAAATTTCAACAGTTGCGTCACAGAATACAGCCAGTTCTCTATCAAAGGGCATTATTTGGACTGCTTCC
ACATTTTTTTTTTAAGCTAACTTATTCCTGACAGACTTTTCTTCAACTCAGCATGACTTCAACTCTCCAACCTACA
CCTGTTACCTTCAGTGACCTGGAGCAGTTGGCTAAAGAGCAAGACAAAGAATCAGAGAAACAACCTTCTACTCCAG
GAAGTGGAGAATCACAAAAAGCAGATGCTCAGCAATCAGGCCTCATGGAGGAAAGCTAATCTCACCTGCAAAATT
GCAATCGACAATCTAGAGAAAGCAGAACTTCTTCAGGGAGGAGATCTCTTAAGGCAAAGGAAAACCACCAAAGAG
AGCCTGGCCCAGACATCCAGTACCATCACTGAGAGCCTCATGGGGATCAGCAGGATGATGGCCCAGCAGGTCCAG
CAGAGCGAGGAGGCCATGCAGTCTCTAGTCACTTCTTCACGAACGATCCTGGATGCAAATGAAGAATTTAAGTCC
ATGTCGGGCACCATCCAGCTGGGCCGGAAGCTTATCACAAAATACAATCGCCGGGAGCTGACGGACAAGCTTCTC
ATCTTCCTTGCGCTAGCCCTGTTTCTTGCTACGGTCCTCTATATTGTGAAAAAGCGGCTCTTCCATTTTTGTGA
GATCCCAAAGGTGCCAGTTCTGGCCCTTTCAGCTCCTGTTTCAGGATCTGTCCTGGTTCTGAGCTCTAGGCTGC
TAAGCTGAGCCACACACCCCTCCGTTTGCACCAGTTGCCTGCAGGTTGGATGGAACACAGTGCCCCACTTTTCTG
CAAGTAGCTGGCTTGTAAGGGTGAACAGAGCCATGGGAGGAAGGTCTGGCATTGGGATGCCGCCCTGGGGACAT
ACGAACCGCCTCCTTCCACCATTGTGCACTATGGGAGGCCGCTGCTGCGTGGAGCACTTAAAGTCCAGCCTCCAG
GACCGGATGCCCTCCTGTCTCCCGCTCCCATCGTGCCCTTAAATGCCAGATCTGGTGGAGGGAAGAGAGAAGAG
GTAGGAAGAAAGGTGATGAAAACCTCCTGGTCATTCTTGAATAAA

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FIGURE 1812

GAGGAGGAGGGAAAAGGCGAGCAAAAAGGAAGAGTGGGAGGAGGAGGGGAAGCGGCGAAGGAGGAAGAGGAGGAG
GAGGAAGAGGGGAGCACAAAGGATCCAGGTCTCCCGACGGGAGGTAAATACCAAGAACCATGTGTGCCGAGCGGC
TGGGCCAGTTCATGACCCTGGCTTTGGTGTGGCCACCTTTGACCCGGCGCGGGGGACCGACGCCACCAACCCAC
CCGAGGGTCCCCAAGACAGGAGCTCCCAGCAGAAAGGCCGCTGTCCCTGCAGAATACAGCGGAGATCCAGCACT
GTTTGGTCAACGCTGGCGATGTGGGGTGTGGCGTGTGTTGAATGTTTCGAGAACAACCTCTTGTGAGATTTCGGGGCT
TACATGGGATTTGCATGACTTTTCTGCACAACGCTGGAAAATTTGATGCCAGGGCAAGTCATTTCATCAAAGACG
CCTTGAAATGTAAGGCCACGCTCTGCGGCACAGGTTTCGGCTGCATAAGCCGGAAGTGCCCGGCCATCAGGGAAA
TGGTGTCCCAGTTGCAGCGGGAATGCTACCTCAAGCACGACCTGTGCGCGGCTGCCCAGGAGAACACCCGGGTGA
TAGTGGAGATGATCCATTTCAAGGACTTGCTGCTGCACGAACCCTACGTGGACCTCGTGAACCTGCTGCTGACCT
GTGGGGAGGAGGTGAAGGAGGCCATCACCCACAGCGTGCAGGTTTCAGTGTGAGCAGAACTGGGGAAGCCTGTGCT
CCATCTTGAGCTTCTGCACCTCGGCCATCCAGAAGCCTCCACGGCGCCCCCGAGCGCCAGCCCCAGGTGGACA
GAACCAAGCTCTCCAGGGCCCCACCGGGGAAGCAGGACATCACCTCCCAGAGCCCAGCAGTAGGGAGACTGGCC
GAGGTGCCAAGGGTGAGCGAGGTAGCAAGAGCCACCCAAACGCCCATGCCCGAGGCAGAGTCGGGGGCCCTTGGGG
CTCAGGGACCTTCCGGAAGCAGCGAGTGGGGAAGACGAACAGTCTGAGTATTCTGATATCCGGAGCTGAATGAAA
GGCCTGGCCACGAAATCTTCTCCACGCCGTCCATTTTCTTATCTATGGACATTCCAAAACATTTACCATTAGA
GAGGGGGGATGTACACGCAGGATTCTGTGGGGACTGTGGACTTCATCGAGGTGTGTGTTTCGCGGAACGGACAGG
TGAGATGGAGACCCCTGGGGCCGTGGGGTCTCAGGGGTGCCTGGTGAATTCTGCACTTACACGTACTCAAGGGAG
CGCGCCCGCGTTATCCTCGTACCTTTGTCTTCTTCCATCTGTGGAGTCAGTGGGTGTCGGCCGCTCTGTTGTGG
GGGAGGTGAACCAGGGAGGGGCAGGGCAAGGCAGGGCCCCCAGAGCTGGGCCACACAGTGGGTGCTGGGCCTCGC
CCGAAGCTTCTGGTGCAGCAGCCTCTGGTGCTGTCTCCGCGGAAGTCAGGGCGGCTGGATTCCAGGACAGGAGT
GAATGTAAAAATAAATATCGCTTAGAATGCAGGAGAAGGGTGGAGAGGAGGCAGGGGCCGAGGGGGTGCTTGGTG
CCAACTGAAATTCAGTTTCTTGTGTGGGGCCTTGCGGTTTCAGAGCTCTTGGCGAGGGTGGAGGGAGGAGTGTCA
TTTCTATGTGTAATTTCTGAGCCATTGTACTGTCTGGGCTGGGGGGGACACTGTCCAAGGGAGTGGCCCTATGA
GTTTATATTTTAACTGCTTCAAATCTCGATTTCACTTTTTTTATTTATCCAGTTATATCTACATATCTGTCA
TCTAAATAAATGGCTTTCAAACAAAGCAACTGGGTCAATAAAACCAGCTCAAAGGGGGTTTAAAAAAAAAAAAAAC
CAGCCCATCCTTTGAGGCTGATTTTTCTTTTTTTTAAAGTTCTATTTTAAAAGCTATCAAACAGCGACATAGCCAT
ACATCTGACTGCCTGACATGGACTCCTGCCCACCTTGGGGGAAACCTTATACCCAGAGGAAAAATACACACCTGGGG
AGTACATTTGACAAATTTCCCTTAGGATTTTCGTTATCTCACCTTGACCCTCAGCCAAGATTGGTAAAGCTGCGTC
CTGGCGATTCCAGGAGACCCAGCTGGAAACCTGGCTTCTCCATGTGAGGGGATGGGAAAGGAAAGAAGAGAATGA
AGACTACTTAGTAATTTCCATCAGGAAATGCTGACCTTTTACATAAAATCAAGGAGACTGCTGAAAATCTCTAAG
GGACAGGATTTTCCAGATCCTAATTGGAAATTTAGCAATAAGGAGAGGAGTCCAAGGGGACAAATAAAGGCAGAG
AGAGAGAGAGAGAGAGGGAGAGGAAGAAAAGAGAGAGAGAAAAGAGCCTCGTGCC

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FIGURE 1813

MCAERLGQFMTLALVLATFDPARGTDATNPPEGPDQRSSQOKGRLSLQNTAEIQHCLVNAGDVGCGVFECFENNS
CEIRGLHGICMTFLHNAGKFDAQGKSFIKDALKCKAHALRHRFGCISRKCPAIREMVSQLORECYLKHDLCAAAQ
ENTRVIVEMIHFKDLLLHEPYVDLVNLLTCGEEVKEAITHSVQVQCEQNWGSLCSILSFCTSAIQKPPTAPPER
QPQVDRTKLSRAHHGEAGHHLPEPSSRETGRGAKGERGSKSHPNAHARGRVGGLGAQGPPSGSSEWEDEQSEYSDI
RR

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FIGURE 1814

GCGGCGCCAGGACTGACTGCGCCGTGGAGGCTGCTGCAGTGTGTGAGTTGGAAGCTGGGGAGCTCGGCATGGCG
GTCCCCGCTGCAGCCATGGGGCCCTCGGCGTTGGGCCAGAGCGGCCCCGGCTCGATGGCCCCGTGGTGCTCAGTG
AGCAGCGGCCCCGTGCGCTACGTGCTTGGGATGCAGGAGCTGTTCCGGGGCCACAGCAAGACGCGCGAGTTCCCTG
GCGCACAGCGCCAAGGTGCACTCGGTGGCCTGGAGTTGCGACGGGCGTCGCCTAGCCTCGGGGTCCCTTCGACAAG
ACGGCCAGCGTCTTCTTGCTGGAGAAGGACCGGTTGGTCAAAGAAAACAATTATCGGGGACATGGGGATAGTGTG
GACCAGCTTTGTTGGCATCCAAGTAATCCTGACCTATTTGTTACGGCGTCTGGAGATAAAACCATTTCGCATCTGG
GATGTGAGGACTACAAAATGCATTGCCACTGTGAACACTAAAGGGGAGAACATTAATATCTGCTGGAGTCCCTGAT
GGGCAGACCATTGCTGTAGGCAACAAGGATGATGTGGTGACCTTTATTGATGCCAAGACACACCGTTCCAAAGCA
GAAGAGCAGTTCAAGTTCGAGGTCAACGAAATCTCCTGGAACAATGACAATAATATGTTCTTCCTGACAAATGGC
AATGGTTGTATCAACATCCTCAGCTACCCAGAACTGAAGCCTGTGCAGTCCATCAACGCCCATCCTTCCAACCTGC
ATCTGTATCAAGTTTGACCCCATGGGGAGTACTTTGCCACAGGAAGTGCAGATGCTTTGGTCAGCCTCTGGGAT
GTGGATGAGTTAGTGTGTGTTTCGGTGCTTTTCCAGGCTGGATTGGCCTGTAAGAACCCTCAGTTTCAGCCATGAT
GGGAAAATGCTGGCGTCAGCATCGGAAGATCATTTTATTGACATTGCTGAAGTGGAGACAGGGGACAAACTATGG
GAGGTACAGTGTGAGTCTCCGACCTTCACAGTGGCGTGGCACCCCAAAGGCCTCTGCTGGCATTTCCTGTGAT
GACAAAGACGGCAAATATGACAGCAGCCGGGAAGCCGGAACCTGTGAAGCTGTTTGGGCTTCCTAATGATTCTTGA

GAGGAGGTTGTAGGGAGAGGAGGCCCCGGCAGAGGTCTTCCTTCATGTGGTTAGTTTGGTCTGTTCTCTCGGAGT
TGGTGGGCACCCTAAATATTTGTAAGTTGGTATAAATTGTAAACGTCTCTGGTCAGGCTGCGCATTTTCGTTCTTT
TGCTTTGTCTGTGTATTAGCTCTTTCCATTCTTTGCCCCAGCATGAGTTAACTCGCGTGGACTCTGCAGTGCGA
GTAGTGACCCAGCATACCTTGTCTCTGGACCTCCTGTCTTCTCTGCTTCTGGGTGCATGGTAGACTTTGTGGC
ATTTGATACAACCTGGACAATACCTAGTTTGGAGGGAGGGGAATGGAAGGGCATGGAAGTTTTTTTAAATAATTA
AAAATATATACATATAATTTTGAGAATTGAGCATTTAATAAACTGACTTTTGTATTATGAAAAAAAAAAAAAA
AA

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FIGURE 1815

MAVPAAAMGPSALGQSGPGSMAPWCSVSSGPSRYVLGMQELFRGHSKTREFLAHSKVVHSAVWSCDGRRLASGSF
DKTASVFLLEKDRLVKENNYRGHGDSDQLCWHPSNPDLFVTASGDKTIRIWDVVRTTKCIATVNTKGENINICWS
PDGQTIAVGNKDDVVTFIDAKTHRSKAEQFKFEVNEISWNNDNNMFFLTNGNGCINILSYPELKPVQSINAHPS
NCICIKFDPMGKYFATGSADALVSLWDVDELVCVRCFSRLDWPVRTLSFSHDGKMLASASEDHFIDIAEVETGDK
LWEVQCESPTFTVAWHPKRPLLAFCDDKDGKYDSSREAGTVKLFGLPND S

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FIGURE 1816

ATAAACTGAAAGCTGAGCGTGAACGTGGTATCACCATTGATATCTCCTTGTGGAAATTTGAGACCAGCAAGTACT
ATGTGACTATCACTGATGCTCCAGGACACAGAGACTTCATCAAAAACATGATTACAGGGACATCTCAGGCTGACT
GTGCTGTCCCGATTGTTGCTGCTGGTGTGGTGAATTTGAAGCTGGTATCTCTAAGAATGGGCAGACCCGAGAGC
ATGCCCTTCTGGCTTACACACTGGGTGTGAAACAATAATTGTTGGTGTAAACAAAATGGAAGTCAGCACTTACA
TTAAGAAAATTGGCTACAACCCCGACACAGTAGCATTGTGCCAATTTCTGGTTGGAATGGTAACAACATGCTGG
AGCCAAGTGCTAACATGCCTTGGTTCAAGGGATGGAAAGTCACCCGTAAGGATGGCAATGCCAGTGAACCATGC
TGCTTGAGGCTCTGGACTGCATCCTACCACCAACTCGTCCAAGTGAAGCCGGCCAAATAAGCGCGTGGCTATG
CCCCATGTAATTGGATTGTCCACAGGCTACATATTGCATGCAAGTTTGCTGAGCTGAAGGAAAAGATTGATCGC
CGTTCTGGTAAAAAGCTGGAAGATGGCCCTAAATTCCTGAAGTCCGGTGATGCTGCCATTGTTGATATGGTTTCT
GGCAAGCCCATGTGTGCTGAGAGCTTCTCAGACTATCCACCTTTGGGTCGCTTTGCTGTTCTGTGATATGAGACAC
ACAGTTGCGGTGGGTGTCATCAAAGCAGTGGACAAGAAGGCTGCTGGAGCTGGCAAGGTCACCAACTCTGCCCAG
AAAGCTCAGATGGCTAAATGAATATTATCCCTAATACCTGCCACCCCACTCTTAATCAGTGGTGAAGAACGGTC
TCAGAACTGTTTGTTCATTTGGCCATTTAAGTTTAGTAGTAAAAGACTGGTACTTTTTTAATGGAAACAACCTGA
CCAAAAATTTGTCACAGAATTTTGAGACCCATTAAAAAAGTTTAATGAG

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FIGURE 1817

GGGTCAGAACACTGGCGGCCGATCCCAACGAGGCTCCCTGGAGCCCGACGCAGAGCAGCGCCCTGGCCGGGGCCAA
GCAGGAGCCGGCATCATGGATTCCCTTCAAAGTAGTGCTGGAGGGGCCAGCACCTTGGGGCTTCCGGCTGCAAGGG
GGCAAGGACTTCAATGTGCCCCCTCTCCATTTCCCGGCTCACTCCTGGGGGCAAAGCGGGCGCAGGCCGGAGTGGCC
GTGGGTGACTGGGTGCTGAGCATCGATGGCGAGAATGCGGGTAGCCTCACACACATCGAAGCTCAGAACAAGATC
CGGGCCTGCGGGGAGCGCCTCAGCCTGGGCCTCAGCAGGGGCCAGCCGGTTCAGAGCAAACCGCAGAAGGTACGA
GGCTGGCCGGGACATCCGGGCGGTGGGCGGTGTGGGCTTGGACGGCCAGGCCTGCTCGCCCTCCTGGCACATTCT
CGGTACCCCAATCCCTGGCCGGGAGTGGAGGGCAGAAACCGGAGCTAAGGCGGGTCTAGGGCCCTGGAGTTGAGC
CAGGGGCTGCTGCACGGTCCTGGCACCACGCATGTCCGCCTGTCTGTCCGCCTGTCTGTCCGCCTGCTGCCTCCC
GCCGCCGGCGCTGCGTGCTCGCCCGCACTCGGTCAGCCCTCGGTCCTGCGTGGACTGAGATCGCCACTCCCAAAT
GGGCCCCCTTGAACCTGAGTCGTCCTCTCCCCGTAGCCTCCAAATAGATGTAGGGGGTGGGGTGGGGGTGGGGG
CTGGAGCTGCCGCTGTCCTCTGCTGCAGGCGCCC

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FIGURE 1818

AATGGAGGAGTCGGAACCCGAACGGAAGCGGGCTCGCACCGACGAGGTGCCTGCCGGAGGAAGCCGCTCCGAGGC
GGAAGATGAGGACGACGAGGACTACGTGCCCTATGTGCCGTTACGGCAGCGCCGGCAGCTACTGCTCCAGAAGCT
GCTGCAGCGAAGACGCAAGGGAGCTGCGGAGGAAGAGCAGCAGGACAGCGGTAGTGAACCCCGGGGAGATGAGGA
CGACATCCCGCTAGGCCCTCAGTCCAACGTCAGCCTCCTGGATCAGCACCAGCACCTTAAAGAGAAGGCTGAAGC
GCGCAAAGAGTCTGCCAAGGAGAAGCAGCTGAAGGAAGAAGAGAAGATCCTGGAGAGTGTTGCCGAGGGCCGAGC
ATTGATGTCAGTGAAGGAGATGGCTAAGGGCATTACGTATGATGACCCCATCAAACACAGCTGGACTCCACCCCG
TTATGTTCTGAGCATGTCTGAAGAGCGACATGAGCGCGTGCGGAAGAAATACCACATCCTGGTGGAGGGGAGACGG
TATCCCACCACCCATCAAGAGCTTCAAGGAAATGAAGTTTCTGCGAGCCATCCTGAGAGGCCTGAAGAAGAAAGG
CATTACCAACCAACACCCATTCAAGATCCAGGGCATCCCCACCATTTCTATCTGGCCGTGACATGATAGGCATCGC
TTTCACGGGTTCAAGCAAGACACTGGTGTTCACGTTGCCCCGTCATCATGTTCTGCCTGGAACAAGAGAAGAGGTT
ACCCTTCTCAAAGCGCGAGGGGCCCTATGGACTCATCATCTGCCCTCGCGGGAGCTGGCCCGGCAGACCCATGG
CATCCTGGAGTACTACTGCCGCCTGCTGCAGGAGGACAGCTCACCCTCCTGCGCTGCGCCCTCTGCATTGGGGG
CATGTCCGTGAAAGAGCAGATGGAGACCATCCGACACGGTGTACACATGATGGTGGCCACCCCGGGGCGCCTCAT
GGATTTGCTGCAGAAGAAGATGGTCAGCCTAGACATCTGTGCTACCTGGCCCTGGACGAGGCTGACCGCATGAT
CGACATGGGCTTCGAGGGTGACATCCGTACCATCTTCTCTACTTCAAGGGCCAGCGACAGACCCTGCTCTTCAG
TGCCACCATGCCGAAGAAGATTGAGAACTTTGCTAAGAGTGCCCTTGTAAGCCTGTGACCATCAATGTGGGGCG
CGCTGGGGCTGCCAGCCTGGATGTCATCCAGGAGGTAGAATATGTGAAGGAGGAGGCCAAGATGGTGTACCTGCT
CGAGTGCTGCAGAAGACACCCCGCCTGTACTCATCTTTCAGAGAAGAAGGCAGACGTGGACGCCATCCACGA
GTACCTGCTGCTCAAGGGGGTTGAGGCCGTAGCCATCCATGGGGGCAAAGACCAGGAGGAACGGACTAAGGCCAT
CGAGGCATTCCGGGAGGGCAAGAAGGATGTCCTAGTAGCCACAGACGTTGCCCTCCAAGGGCCTGGACTTCCCTGC
CATCCAGCACGTCAATTAATGACATGCCAGAGGAGATTGAGAACTATGTACACCGGATTGGCCGCACCGGGCG
CTCGGGAAACACAGGCATCGCCACTACCTTCATCAACAAAGCGTGTGATGAGTCAGTGCTGATGGACCTCAAAGC
GCTGCTGCTAGAAGCCAAGCAGAAGGTGCCGCCCGTGTGTCAGGTGCTGCATTGCGGGGATGAGTCCATGCTGGA
CATTGGAGGAGAGCGCGGCTGTGCTTCTGCGGGGGCCTGGGTATCGGATCACTGACTGCCCCAACTCGAGGC
TATGCAGACCAAGCAGGTGAGCAACATCGGTGCGAAGGACTACCTGGCCCACAGCTCCATGGACTTCTGAGCCGA
CAGTCTTCCCTTCTCTCCAAGAGGCCTCAGTCCCCAAGACTGCCACCAGTCTACACATACAGCAGCCCCCTGGAC
AGAATCAGCATTTTCAGCTCAGCTGGCCTGGGATGGGCCAGGCTGGTCTGGCTGCCTGTTCCCTGTGCTCTTCAG
AATTACTGTTTTTTGTTTTCTTTTACCCAGCTGCCATTAAAGCCCAAACCTCTAGCCC

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FIGURE 1819

GCAAGATGGCTGTGGAGCTGGGCGTGCTGCTCGTCCGGCCCCGGCCCGGAACCGGGCTGGGTAGAGTGATGCGGA
CCCTCCTGCTGGTGCTGTGGCTGGCGACGCGCGGAAGCGCGCTCTACTTTCACATCGGAGAGACGGAGAAGAAGT
GCTTTATTGAGGAGATCCCGGACGAGACCATGGTCATAGGAACTACCGGACGCAGCTGTATGACAAGCAGCGGG
AGGAGTACCAGCCGGCCACCCCGGGGCTTGGCATGTTTGTGGAGGTGAAGGACCCAGAGGACAAGGTCATCCTGG
CCCGGCAGTATGGCTCCGAGGGCAGGTTCACTTTCACTTCCCATACCCCTGGTGAGCACCAGATCTGTCTTCACT
CCAATTCCACCAAGTTCTCCCTCTTTGCTGGAGGCATGCTGAGAGTTCACCTGGACATCCAGGTAGGTGAACATG
CCAATGACTATGCAGAAATTGCTGCTAAAGACAAGTTGAGTGAGTTGCAGCTACGAGTGCGACAGCTGGTGGAAC
AAGTGGAGCAGATCCAGAAAGAGCAGAACTACCAGCGGTGGCGAGAGGAGCGCTTCCGGCAGACCAGTGAGAGCA
CCAACCAGCGGGTGCTGTGGTGGTCCATTCTGCAGACCCTCATCCTCGTGGCCATCGGTGTCTGGCAGATGCGGC
ACCTCAAGAGCTTCTTTGAAGCCAAGAAGCTTGTGTAGCTGTCCCAGGCGTCACAACCCATCCTCCCAGGCTGGG
GGAGGGGAATGGGCAGGCAAGCCAGTCTTCTGTCTTCCTTT

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FIGURE 1820

GCCTCCGCCCCCGCCGCGGACCCCTCCGCGGTACACCTTGACCCAGCGTCTCCCTCTACAAGACGGCCCCGGCCCT
TTGGTGCGCCCCCGCCGCTGACAGCGCCCCGCAGCAGAAATGGACAGCCGCTCCGACCGCTGGTCCCAGATGCCA
GCAAGCAGCGGCTGATGGAGAACACAGAGGACTGGCGGCCGCGGCCGGGGACAGGCCAGTCGCGTTTCCTCCGCA
TCCTTGCCACCTCACAGGCACCGAGTTCATGCAAGACCCGGATGAGGAGCACCTGAAGAAATCAAGCCAGGTGC
CCAGGACAGAAGCCCCAGCCCCAGCCTCATCTACACCCAGGAGCCCTGGCCTGGCCCTACCGCCCCAGCCCTA
CCAGCCGCCCCGCTGGGCTGTGGACCTGCGTTTGCCGAGCGCTATGCCCCGGACAAAACGAGCACAGTGCTGA
CCCGGCACAGCCAGCCGGCCACGCCCACGCCGCTGCAGAGCCGCACCTCCATTGTGCAGGCAGCTGCCGGAGGGG
TGCCAGGAGGGGGCAGCAACAACGGCAAGACTCCCGTGTGTACCCAGTGCCACAAGGTCATCCGGGGCCGCTACC
TGGTGGCGCTGGGCCACGCGTACCACCCGGAGGAGTTTGTGTGTAGCCAGTGTGGGAAGGTCCTGGAAGAGGGTG
GCTTCTTTGAGGAGAAGGGCGCCATCTTCTGCCACCATGCTATGACGTGCGCTATGCACCCAGCTGTGCCAAGT
GCAAGAAGAAGATTACAGGCGAGATCATGCACGCCCTGAAGATGACCTGGCACGTGCACTGCTTTACCTGTGCTG
CCTGCAAGACGCCCATCCGGAACAGGGCCTTCTACATGGAGGAGGGCGTGCCCTATTGCGAGCGAGACTATGAGA
AGATGTTTGGCACGAAATGCCATGGCTGTGACTTCAAGATCGACGCTGGGGACCGCTTCCTGGAGGCCCTGGGCT
TCAGCTGGCATGACACCTGCTTCGTCTGTGCGATATGTCAGATCAACCTGGAAGGAAAGACCTTCTACTCCAAGA
AGGACAGGCCTCTCTGCAAGAGCCATGCCTTCTCTCATGTGTGAGCCCCTTCTGCCACAGCTGCCGCGGTGGCC
CCTAGCCTGAGGGGCCTGGAGTCGTGGCCCTGCATTTCTGGGTAGGGCTGGCAATGGTTGCCTTAACCCTGGCTC
CTGGCCCGAGCCTGGGGCTCCCTGGGCCCTGCCCCACCCACCTTATCCTCCCACCCCACTCCCTCCACCACCACA
GCACACCGGTGCTGGCCACACCAGCCCCCTTTCACCTCCAGTGCCACAATAAACCTGTACCCAGCTG

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FIGURE 1821

AGGTGGAGCAAGATGGCTGTGGAGCTGGGCGTGCTGCTCGTCCGGCCCCGGCCCCGAACCGGGCTGGGTAGAGTG
ATGCGGACCCCTCCTGCTGGTGTGTGGCTGGCGACGCGCGGAAGCGCGCTCTACTTTCACATCGGAGAGACGGAG
AAGAAGTGCTTTATTGAGGAGATCCCGGACGAGACCATGGTCATAGGAACTACCGGACGCAGCTGTATGACAAG
CAGCGGGAGGAGTACCAGCCGGCCACCCGGGGCTTGGCATGTTTGTGGAGGTGAAGGACCCAGAGGACAAGGTC
ATCCTGGCCCCGGCAGTATGGCTCCGAGGGCAGGTTCACTTTCCTTCCCATAACCCCTGGTGAGCACCAGATCTGT
CTTCACTCCAATTCCACCAAGTTCTCCCTCTTTGCTGGAGGCATGCTGAGAGTTCACCTGGACATCCAGGTAGGT
GAACATGCCAATGACTATGCAGAAATTGCTGCTAAAGACAAGTTGAGTGAGTTGCAGCTACGAGTGCGACAGCTG
GTGGAACAAGTGGAGCAGATCCAGAAAGAGCAGAACTACCAGCGGTGGCGAGAGGAGCGCTTCCGGCAGACCAGT
GAGAGCACCAACCAGCGGGTGCTGTGGTGGTCCATTCTGCAGACCCTCATCCTCGTGGCCATCGGTGTCTGGCAG
ATGCGGCACCTCAAGAGCTTCTTTGAAGCCAAGAAGCTTGTTAGCTGTCCCAGGCGTCACAACCCATCCTCCCA
GGCTGGGGGAGAAAGGACCTCCTGGAAGTGAAGTCTTCTGTCAGGAGGACTGGTTTCCAGCCATACCTGTTCTGG
AAGGGAGAGGGGCTGGAGGCACCCACAGGCACAAGCTGAAGGCAGCAGCTTGGCTAATACTGAGCAGGTAGTGGG
GCAAATTCCTGCCCTCTCTCTCTGGCCTCTGGGCCGTTTGGTAGTAATCACCCAGGGGCTGGTAAAGCCCCCTCCT
CTTGGCACCTCAGAATCACAGTGTTACTGATCAGGGATGTGAGGCTGCTGTTGGGGGTGGGGGGAGGGGAATGGG
CAGGCAAGCCAGTCTTCTGTCTTCTTTGCTAACTTAGGGTTTTGAGCAGGTTGGGGTATGGTGCCCTGTCTATACC
CACCTGCCACCCCTGGGAACCTCACTGTTCTCTTTTCAGCCTAGACCTGCTGATCCAGGGTGTGTGTGAGTTGAG
GGTGGGTGGAGGGGTTTGCAGTGTGGGAATGTGGCCCTGCAGTTGACCTGAGCTGCTTTCACATGGTTGTCCATTC
TGGGGCTTAAAGAACTGGGACCAGACCAAGTAGAGGCCTTGGTGCTGGTTGGGGTGGGGCCTGCAGAGTCTTAGT
TACTGATTTCAATTTCAATAAATGTAGGTTTGTACATGAGTTTCCCAATAAAAAAAAAAATG

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FIGURE 1822

MRILLLVWLATRGSAFYFHIGETEEKCFIEEIPDETMVIGNYRTQLYDKQREEYQFATPGLGMFVEVKDPEDKV
ILARQYGSEGRFTFTSHTPGEHQICLHSNSTKFSLFAGGMLRVHLDIQVGEHANDYAEIAAKDKLSELQLRVRQL
VEQVEQIQKEQNYQRWREERFRQTSESTNQRVLWWSILQTLILVAIGVWQMRHLKSFFEAKKL

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FIGURE 1823

AATGGAGGAGTCTGGAACCCGAACGGAAGCGGGCTCGCACCGACGAGGTGCCTGCCGGAGGAAGCCGCTCCGAGGC
GGAAGATGAGGACGACGAGGACTACGTGCCCTATGTGCCGTTACGGCAGCGCCGGCAGCTACTGCTCCAGAAGCT
GCTGCAGCGAAGACGCAAGGGAGCTGCGGAGGAAGAGCAGCAGGACAGCGGTAGTGAACCCCGGGGAGATGAGGA
CGACATCCCGCTAGGCCCTCAGTCCAACGTCAGCCTCCTGGATCAGCACCAGCACCTTAAAGAGAAGGCTGAAGC
GCGCAAAGAGTCTGCCAAGGAGAAGCAGCTGAAGGAAGAAGAGAAGATCCTGGAGAGTGTGCGGAGGGCCGAGC
ATTGATGTCAGTGAAGGAGATGGCTAAGGGCATTACGTATGATGACCCCATCAAACCAGCTGGACTCCACCCCG
TTATGTTCTGAGCATGCTGAAGAGCGACATGAGCGCGTGCGGAAGAAATACCACATCCTGGTGGAGGGAGACGG
TATCCCACCACCCATCAAGAGCTTCAAGGAAATGAAGTTTCTGCAGCCATCCTGAGAGGCCTGAAGAAGAAAGG
CATTCAACCACCCAACACCCATTTCAGATCCAGGGCATCCCCACCATTTCTATCTGGCCGTGACATGATAGGCATCGC
TTTCACGGGTTTCAGGCAAGACACTGGTGTTCACGTTGCCCGTTCATCATGTTCTGCCTGGAACAAGAGAAGAGGTT
ACCCCTTCTCAAAGCGCGAGGGGGCCCTATGGACTCATCATCTGCCCTCGCGGGAGCTGGCCCGGCAGACCCATGG
CATCCTGGAGTACTACTGCCGCTGCTGCAGGAGGACAGCTCACCCTCCTGCGCTGCGCCCTCTGCATTGGGGG
CATGTCCGTGAAAGAGCAGATGGAGACCATCCGACACGGTGTACACATGATGGTGGCCACCCCGGGGCGCCTCAT
GGATTTGCTGCAGAAGAAGATGGTCAGCCTAGACATCTGTGCTACCTGGCCCTGGACGAGGCTGACCGCATGAT
CGACATGGGCTTCGAGGGTGACATCCGTACCATCTTCTCCTACTTCAAGGGCCAGCGACAGACCCTGCTCTTCAG
TGCCACCATGCCGAAGAAGATTTCAGAACTTTGCTAAGAGTGCCCTTGTAAGCCTGTGACCATCAATGTGGGGCG
CGCTGGGGCTGCCAGCCTGGATGTTCATCCAGGAGGTAGAATATGTGAAGGAGGAGGCCAAGATGGTGTACCTGCT
CGAGTGCTGCTGCAAGACACCCCCGCTGTACTCATCTTTGCAGAGAAGAAGGCAGACGTGGACGCCATCCACGA
GTACCTGCTGCTCAAGGGGGTTGAGGGCGTAGCCATCCATGGGGGCAAAGACCAGGAGGAACGGACTAAGGCCAT
CGAGGCATTCCGGGAGGGCAAGAAGGATGTCTAGTAGCCACAGACGTTGCCTCCAAGGGCCTGGACTTCCCTGC
CATCCAGCACGTTCATCAATTATGACATGCCAGAGGAGATTGAGAACTATGTACACCGGATTGGCCGCACCGGGCG
CTCGGGAAACACAGGCATCGCCACTACCTTCATCAACAAAGCGTGTGATGAGTCAGTGCTGATGGACCTCAAAGC
GCTGCTGCTAGAAGCCAAGCAGAAGGTGCCGCGCGTGTGTCAGGTGCTGCATTGCGGGGATGAGTCCATGCTGGA
CATTGGAGGAGAGCGCGGCTGTGCCTTCTGCGGGGGCCTGGGTCTATCGGATCACTGACTGCCCCAAACTCGAGGC
TATGCAGACCAAGCAGGTCAGCAACATCGGTGCGAAGGACTACCTGGCCACAGCTCCATGGACTTCTGAGCCGA
CAGTCTTCCCTTCTCTCCAAGAGGGCTCAGTCCCCAAGACTGCCACCAGTCTACACATACAGCAGCCCCCTGGAC
AGAATCAGCATTTTCAGCTCAGCTGGCCTGGAATGGGCCAGGCTGGTCTGCTGCTGCTGCTTCCCTGTGCTCTTCAG
AATTACTGTTTTTTGTTTTCCTTTTACCCAGCTGCCATTAAAGCCCAAACCTCTAGCCC

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FIGURE 1824

CCCAACGAGGCTCCCTGGAGCCCCGACGCAGAGCAGCGCCCTGGCCGGGCCAAGCAGGAGCCGGCATCATGGATTTC
CTTCAAAGTAGTGCTGGAGGGGCCAGCACCTTGGGGCTTCCGGCTGCAAGGGGGCAAGGACTTCAATGTGCCCCCT
CTCCATTTCCCGGCTCACTCCTGGGGGCAAAGCGGCGCAGGCCGGAGTGGCCGTGGGTGACTGGGTGCTGAGCAT
CGATGGCGAGAATGCGGGTAGCCTCACACACATCGAAGCTCAGAACAAGATCCGGGCCTGCGGGGAGCGCCTCAG
CCTGGGCCTCAGCAGGGCCCAGCCGGTTCAGAGCAAACCGCAGAAGGCCTCCGCCCCCGCCGCGGACCCCTCCGCG
GTACACCTTTGCACCCAGCGTCTCCCTCAACAAGACGGCCCGGCCCTTTGGGGCGCCCCCGCCGCTGACAGCGC
CCCGCAGCAGAATGGACAGCCGCTCCGACCGCTGGTCCCAGATGCCAGCAAGCAGCGGCTGATGGAGAACACAGA
GGACTGGCGGCCGCGGCCGGGGACAGGCCAGTCGCGTTCCTTCCGCATCCTTGCCCACCTCACAGGCACCCGAGTT
CATGCAAGACCCGGATGAGGAGCACCTGAAGAAATCAAGCCAGGTGCCCAGGACAGAAGCCCCAGCCCCAGCCTC
ATCTACACCCCAGGAGCCCTGGCCTGGCCCTACCGCCCCAGCCCTACCAGCCGCCCCGCCCTGGGCTGTGGACCC
TGCGTTTGCCGAGCGCTATGCCCCGGACAAAACGAGCACAGTGCTGACCCGGCACAGCCAGCCGGCCACGCCCCAC
GCCGCTGCAGAGCCGCACCTCCATTGTGCAGGCAGCTGCCGGAGGGGTGCCAGGAGGGGGCAGCAACAACGGCAA
GACTCCCGTGTGTACACAGTGCCACAAGGTCATCCGGGGCCGCTACCTGGTGGCGCTGGGGCCACGCGTACCACCC
GGAGGAGTTTGTGTGTAGCCAGTGTGGGAAGGTCCTGGAAGAGGGTGGCTTCTTTGAGGAGAAGGGCGCCATCTT
CTGCCCACCATGCTATGACGTGCGCTATGCACCCAGCTGTGCCAAGTGCAAGAAGAAGATTACAGGCGAGATCAT
GCACGCCCTGAAGATGACCTGGCACGTGCACTGCTTTACCTGTGCTGCCTGCAAGACGCCCCATCCGGAACAGGGC
CTTCTACATGGAGGAGGGCGTGCCCTATTGCGAGCGAGACTATGAGAAGATGTTTGGCACGAAATGCCATGGCTG
TGACTTCAAGATCGACGCTGGGGACCGCTTCCTGGAGGCCCTGGGCTTCAGCTGGCATGACACCTGCTTCGTCTG
TGCGATATGTCAGATCAACCTGGAAGGAAAGACCTTCTACTCCAAGAAGGACAGGCCTCTCTGCAAGAGCCATGC
CTTCTCTCATGTGTGAGCCCCCTTCTGCCCCACAGCTGCCGCGGTGGCCCCCTAGCCTGAGGGGCCTGGAGTCGTGGC
CCTGCATTTCTGGGTAGGGCTGGCAATGGTTGCCTTAACCCTGGCTCCTGGCCCGAGCCTGGGGCTCCCTGGGCC
CTGCCCCACCCACCTTATCCTCCCACCCCACTCCCTCCACCACCACAGCACACCGGTGCTGGCCACACCAGCCCC
CTTTCACCTCCAGTGCCACAATAAACCTGTACCCAGCTG

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FIGURE 1825

MDSFKVVLEGPAPWGFRLQGGKDFNVPLSISRLTPGGKAAQAGVAVGDWVLSIDGENAGSLTHIEAQNKIRACGE
RLSLGLSRAQFVQSKPQKASAPAADPPRYTFAPSVSLNKTARPFAGAPPADSAPOQNGQPLRPLVPDASKQRLME
NTEDWRPRPGTGQSRFRILAHLTGTEFMQDPDEEHLKKSSQVPRTEAPAPASSTPQEPWPGPTAPSPTSRPPWA
VDPFAFAERYAPDKTSTVLTRHSQPATPTPLQSRISIVQAAAGGVPGGGSNNGKTPVCHQCHKVIRGRYLVALGHA
YHPEEFVCSQCGKVLEEGGFFEEKGAIFCPCYDVRYAPSCAKCKKKITGEIMHALKMTWHVHCFTCAACKTPIR
NRAFYMEEGVPCERDYEKMFGTKCHGCDFKIDAGDRFLEALGFSWHDTCFVCAICQINLEGKTFYSKKDRPLCK
SHAFSHV

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FIGURE 1826

GGGGGCGCGCGCCCCGCGCCTCCAGCCCAGCGCTCGGAGCCGCTTTCGCTGCCACTGTCTGCTCCCCGGGCGC
CGCCGCTCCCCCGCAGGCCCGGGCTCTGTCCGCTGGGCGCGCTGCTCGCCCCGGGCCAGGAGAACGAGCT
CGAGGAGGATGCCTGGGCGCGGTGCAAGGTTCCCCCTCTCACC CGCAGCTGTGGAGAGGAGGAAGCGGAAGTAGA
GATGCCCATCTGGAGTGAGTGCAGGACCAGGTCCCGCGCGGCCCCGGGTGAGGCACGCGCGCGCCCGCGCG
CCATGGGAAGGAGCGGGCGCCGCTGCTGTCCCCGCGCGCGCGCACGACTTGAGACCTGCCACGGGCAGCCCC
CGGCCGCGGGTCCCCGAGTGACGCTGGCGGCACCTGAGAGTGTGGCGCGGGCCCGGGGCCACGCAGCGGAGCCCA
GTGTCCAGTGAAGCGTCTGAGGACCCGCGCCCGTGGCGCGGCCATGGTGATGTCCAGGGCACCTACACGTTCC
TCACGTGCTTCGCGGCTTCTGGCTCATCTGGGGTCTCATCGTCCTGCTCTGCTGCTTCTGCAGCTTCCTGCGCC
GCCGCTCAAACGGCGCCAGGAGGAGCGACTGCGCGAGCAGAACCTGCGCGCCCTAGAGCTGGAGCCCCCTCGAAC
TCGAGGGCAGTCTGGCCGGGAGTCCCCGGGCTGGCGCGCCCGCAGCCACCACACCGTAGCCGCTGGAGG
CGCCGGCTCACGCGCACTCGCATCCGCACGTGCACGTGCACCCGCTGCTGCACCACGGGCCCGCGCAGCCGCACG
CGCACGCGCACCCACACCCGCACCCACGCGCTCCCGCACCCGCGCCTACGCACCTGTGCGGTGCCGCCACGGC
CCTGGAGCTACCCGCGCCAAGCGGAATCGGACATGTCCAAACCACCGTGTTACGAAGAGGCGGTGCTGATGGCAG
AGCCGCGCGCCGCTATAGCGAGGTGCTCACGGACACGCGCGGCTCTACCGCAAGATCGTCAGCCCTTCCTGA
GTCGCCGCGACAGCGCGGAGAAGCAGGAGCAGCGCCTCCAGCTACAAGCCGCTCTTCCTGGACCGGGGCTACA
CCTCGGCGCTGCACCTGCCCAGCGCCCCCTCGGCGCGCGCGCCTGCCAGCCCTCTGCCTGCAGGCCGACCGTG
GCCGCCGGGTCTTCCCCAGCTGGACCGACTCAGAGCTCAGCAGCCGCGAGCCCTGGAGCACGGAGCTTGGCGTC
TGCCGGTCTCCATCCCTTGTTTCGGGAGGACTACAGCCGTATAGAGGGGCGCCCGGCGCCCCGGGCCCCACCGGC
GGACTCCTGGCCTGACTGCGGGGCTTTTTAAATGCTTCCCTGGACTGCGGGGAGGGGCGGGGGGAGGGAGGGATT
TCTTATCCCGTTTGTTACATTTTGAGGATAATAAAGGTGTGTGATCTGGTTTGGTGAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAA

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FIGURE 1827

MVMSQGTYTFLTCFAGFWLIWGLIVLLCCFCSFLRRRLKRRQEERLREQNLRALELEPLELEGLAGSPPGLAPP
QPPPHRSRLEAPAHASHPHVHVHPLLHHGPAQPHAHAPHPHHHALPHPPPTHLSVPPRPWSYPRQAESDMSKP
PCYEEAVLMAEPPPPYSEVLTDTRGLYRKIVTPFLSRRDSA EKQEPPPSYKPLFLDRGYTSALHLPSAPRPAPP
CPALCLQADRGRRVFPSWTDSELSSREPLEHGAWRLPVSIPLFGRTTAV

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FIGURE 1828

CTATTGATCTGGACTCCTGGATAGGCAGCTGGACCAACGGACGGACGCCATGAGGGCTCTGCTGCTCCTGGGGTT
CCTGCTGGTGAGCTTGGAGTCAACACTTTTCGATTCCACCTTGGGAAGCCCCCAAGGAGCATAAGTACAAAGCTGA
AGAGCACACAGTCGTTCTCACTGTACCGGGGAGCCCTGCCACTTCCCCTTCCAGTACCACCGGCAGCTGTACCA
CAAATGTACCCACAAGGGCCGGCCAGGCCCTCAGCCCTGGTGTGCTACCACCCCCAACTTTGATCAGGACCAGCG
ATGGGGATACTGTTTGGAGCCCCAAGAAAGTGAAGACCCTGCAGCAAACACAGCCCCCTGCCAGAAAGGAGGGAC
CTGTGTGAACATGCCAAGCGGCCCCACTGTCTCTGTCCACAACACCTCACTGGAAACCACTGCCAGAAAGAGAA
GTGCTTTGAGCCTCAGCTTCTCCGGTTTTTCCACAAGAATGAGATATGGTATAGAACTGAGCAAGCAGCTGTGGC
CAGATGCCAGTGCAAGGGTCTGATGCCCCTGCCAGCGGCTGGCCAGCCAGGCCTGCCGCACCAACCCGTGCCT
CCATGGGGGTGCTGCCTAGAGGTGGAGGGCCACCGCCTGTGCCACTGCCCGGTGGGCTACACCGGACCCTTCTG
CGACGTGGACACCAAGGCAAGCTGCTATGATGGCCGCGGGCTCAGCTACCGCGGCCTGGCCAGGACCACGCTCTC
GGGTGCGCCCTGTCAGCCGTGGGCCTCGGAGGCCACCTACCGGAACGTGACTGCCGAGCAAGCGCGGAACCTGGGG
ACTGGGCGGCCACGCCTTCTGCCGAACCCGGACAACGACATCCGCCCCTGGTGCTTTCGTGCTGAACCGCGACCG
GCTGAGCTGGGAGTACTGCGACCTGGCACAGTGCCAGACCCCAACCCAGGCGGCGCCTCCGACCCCGGTGTCCCC
TAGGCTTCATGTCCCACTCATGCCCCGCGCAGCCGGCACCGCCGAAGCCTCAGCCCACGACCCGGACCCCGCCTCA
GTCCCAGACCCCGGGAGCCTTGCCGGCGAAGCGGGAGCAGCCGCCTTCCCTGACCAGGAACGGCCCACTGAGCTG
CGGGCAGCGGCTCCGCAAGAGTCTGTCTTCGATGACCCGCGTCTGTTGGCGGGCTGGTGGCGCTACGCGGGGCGCA
CCCCTACATCGCCGCGTGTACTGGGGCCACAGTTTTCTGCGCCGGCAGCCTCATCGCCCCCTGCTGGGTGCTGAC
GGCCGCTCACTGCCTGCAGGACCGGCCCGCACCCGAGGATCTGACGGTGGTGCTCGGCCAGGAACGCCGTAACCA
CAGCTGTGAGCCGTGCCAGACGTTGGCCGTGCGCTCCTACCGCTTGACAGAGGCCTTCTCGCCCGTCAGCTACCA
GCACGACCTGGCTCTGTTGCGCCTTCAGGAGGATGCGGACGGCAGCTGCGCGCTCCTGTGCGCTTACGTTACGCC
GGTGTGCCTGCCAAGCGGCGCCGCGCACCCCTCCGAGACCACGCTCTGCCAGGTGGCCGGCTGGGGCCACCAGTT
CGAGGGGGCGGAGGAATATGCCAGCTTCCCTGCAGGAGGCGCAGGTACCGTTCCCTCTCCCTGGAGCGCTGCTCAGC
CCCGGACGTGCACGGATCCTCCATCCTCCCCGGCATGCTCTGCGCAGGGTTCCCTCGAGGGCGGCACCGATGCGTG
CCAGGGTGATTCCGGAGGCCCGCTGGTGTGTGAGGACCAAGCTGCAGAGCGCCGGCTCACCTGCAAGGCATCAT
CAGCTGGGGATCGGGCTGTGGTGACCGCAACAAGCCAGGCGTCTACACCGATGTGGCCTACTACCTGGCCTGGAT
CCGGGAGCACACCGTTTCCTGATTGCTCAGGGACTCATCTTCCCTCCTTGGTGATTCCGCAGTGAGAGAGTGGC
TGGGGCATGGAAGGCAAGATTGTGTCCATTCCCCCAGTGCGGCCAGCTCCGCGCCAGGATGGCGAGGAACTCAA
TAAAGTGCTTTGAAAATGCTGAG

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FIGURE 1829

MRALLLLGFLLVSLSTLSIPPWEAPKEHKYKAEHTVVLTVTGEPCHFPPQYHRQLYHKCTHKGRPGPQPWCAT
TPNFDQDQRWGYCLEPKKVKDHCSKHSPCQKGGTCVNMPSGPHCLCPQHLTGNHCQKEKCFEPQLLRFFHKNEIW
YRTEQAAVARCQCKGPDHQCRLASQACRTNPNCLHGGRCLEVEGHRLCHCPVGYTGPFCDVDTKASCYDGRGLSY
RGLARTTSLGAPCQPWASEATYRNVTAEQARNWGLGGHAFCRNPDNDIRPWCFVLNRDRLSWEYCDLAQCQTPTQ
AAPPTPVSPRLHVPLMPAQPAAPPKPQPTTRTPPQSQTGALPAKREQPPSLTRNGPLSCGQRLRKSLSMTRVVG
GLVALRGAPYIAALYWGHSCAGSLIAPCWVLTAACHCLQDRPAPEDLTVVLGQERRNHSCEPCQTLAVRSYRLH
EAFSPVSYQHDLALLRLQEDADGSCALLSPYVQPVCLPSGAARPSETTLCQVAGWGHQFEGAEYYASFLQEAQVP
FLSLERCSAPDVHGSSILPGMLCAGFLEGGTDACQGDSSGGPLVCEQAAERRLTLQGIISWGS GCGDRNKPGVYT
DVAYYLA WIREHTVS

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FIGURE 1830

ATGGCGGCGGAAGGCTGGATTTGGCGTTGGGGCTGGGGCCGGCGGTGCCTGGGAAGGCCTGGGCTTCTCGGCCCC
GGCCCTGGCCCCACTACACCTCTCTTTCTTCTTTGTTGTTGGGGTCTGTGACTGCGGATATAACTGACGGCAAC
AGTGAACATCTCAAGCGGGAGCATTTCGCTCATTAAAGCCCTACCAAGGGGTCGGTTCCAGCTCTATGCCCTCTGG
GACTTCCAGGGCAGCACTATGCTCACGAGCCAGTACGTACGTCTGACCCCTGACGAGCGCAGCAAAGAGGGGCTCT
ATCTGGAACCAACAGCCGTGCTTCCTCAAAGACTGGGAAATGCACGTCCACTTCAAAGTCCACGGCACAGGGAAG
AAGAACCTCCATGGAGACGGCATCGCCTTGTGGTACACCCGGGACCGCCTCGTGCCAGGGCCTGTGTTTGAAGC
AAAGATAACTTCCACGGCTTAGCCATCTTCCTGGACACCTACCCCAATGATGAGACCACTGAGCGCGTGTTCCTCG
TACATCTCGGTGATGGTGAACAATGGCTCCCTGTCTACGACCACAGCAAGGATGGGCGCTGGACCGAGCTGGCG
GGCTGCACGGCTGACTTCCGCAACCGCGATCACGACACCTTCCTGGCTGTGCGCTACTCCCGGGGCCGTCTGACG
GTGATGACCGACCTGGAGGACAAGAACGAGTGAAGAAGTGCATTGACATCACGGGAGTGCGCCTGCCACCGGC
TACTACTTCCGGGGCCTCCGCCGGCACCGGCGACCTGTCTGACAATCATGACATCATCTCCATGAAGCTGTTCAG
CTGATGGTGGAGCACACGCCCAGCAGGAGAGCATCGACTGGACCAAGATCGAGCCCAGCGTCAACTTCCTCAAG
TCGCCCCAAGACAACGTGGACGACCCACGGGGAAGTTCGCGAGCGGGCCCTGACGGGGTGGCGGGTGTTCCTG
CTGCTGCTGTGCGCTCTCCTGGGCATCGTTGTCTGCGCCGTGGTGGGGCCGTGGTGTTCAGAAGCGGCAGGAG
CGGAACAAGCGCTTCTACTGAGTGGCGCCTCCGGCGGGGCCTGTCCCTGGGCCCAGGAGCCAATGTGAACTTTTT
TTTTTACCGGGATTATAAAAGAACAACAAGATGACCTTATTTCTTAAGTGTTCAAATAAATGATTAAAGTATTT
TCATACATTTTGCTTCTTGCCCAGCAGGGACAGGTGGCAGAGCCGAGGCTTAGGGTCTGGCACCCCCACAGCTG
GAGACGGAGGCTCTCCTGGGGCTGGTGTCTCAGGAGCAGGGGTCTGTGTCTACAGATGGGCTGTGGCCCTGCAG
GCAGCTGTTGAACACTGGAGGGTCCCCCGGACCACACTGGGGTGGGCTCCTGAGGAC

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FIGURE 1831

MAAEGWIWRWGWGRRCLGRPGLLGPGPGPTTPLFLLLLLGSVTADITDGNSEHLKREHSLIKPYQGVGSSSMPLW
DFQGSTMLTSQYVRLTPDERSKEGSIWNHQPCFLKDWEMHVHFKVHGTGKKNLHGDGIALWYTRDRLVPGPVFGS
KDNFHGLAIFLDITYPNDETTERVFPYISVMVNNGSLSYDHSDGRWTELAGCTADFRNRDHDTF LAVRYSRGRLT
VMTDLEDKNEWKNCIDITGVRLPTGY YFGASAGTGDLSDNHDII SMKLFQLMVEHTPDEESIDWTKIEPSVNFLK
SPKDNVDDPTGNFRSGPLTGWRVFLLLL CALLGIVVCAVVGAVVFQKRQERNKRFY

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FIGURE 1832

GGCACGAGGGCTTGCTCCGGCCGGCACCCCTAGGCCGGCCCGCCGCCAGCTGTGCGCCGACATGAACCCTTGGCCA
GCAACATCCAGGTCCTGCTGCAGGCGGCCGAGTTCCTGGAGCGCCGTGAGAGAGAGGCCGAGCATGGTTATGCGT
CCCTGTGCCCCGATCGCAGTCCAGGCCCCATCCACAGGAGGAAGAAGCGACCCCCCAGGCTCCTGGCGCGCAGG
ACAGCGGGCGGTCAGTGCACAATGAACTGGAGAAGCGCAGGAGGGCCAGTTGAAGCGGTGCCTGGAGCGGCTGA
AGCAGCAGATGCCCCCTGGGGGCCGACTGTGCCCGGTACACCACGCTGAGCCTGCTGCGCCGTGCCAGGATGCACA
TCCAGAAGCTGGAGGATCAGGAGCAGCGGGCCCGACAGCTCAAGGAGAGGCTGCGCAGCAAGCAGCAGAGCCTGC
AGCGGCAGCTGGAGCAGCTCCGGGGGCTGGCAGGGGCGGCCGAGCGGGAGCGGCTGCGGGCGGACAGTCTGGACT
CCTCAGGCCTCTCCTCTGAGCGCTCAGACTCAGACCAAGAGGAGCTGGAGGTGGATGTGGAGAGCCTGGTGTGTTG
GGGGTGAGGCCGAGCTGCTGCGGGGCTTCGTGCGCCGGCCAGGAGCACAGCTACTCGCACGGCGGCGGGCGCCTGGC
TATGATGTTTCCTCACCCAGGGCGGGCCTCTGCCCTCTACTCGTGCCAGGCCCACTTGCCAGGCAGGAGCCCTCCC
CAAGCCTTCAGGGCTGCTCGGAGTCACCTGTTGGAATGGACTAAAAGGACCCTTGTGTGGGAACAGGTGCTCCCC
AAACACCCTGCTGCTGGCTGCCAGGCAGGCCCTCTGGAAGGGAAGGGGCAGGACTCATCAGGACCTCCCTGGACC
CCTGCAGGGCAGGCAGCTTGGGCCCCGAGCCCAAGCATTGCTGCTGCCCCAAGGGGACAGGAAGCCTCTTG
GGCCTCTTCCCTTCTGACAAAGGCCCCCTGCCTTTGCCTCACATAAACTGTACAGTATTTTCATTAAAAGCCTC
TTTCATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1833

MEPLASNIQVLLQAAEFLERREREAEHGYASLCPHRSPGPIHRRKKRPPQAPGAQDSGRSVHNELEKRRRAQLKR
CLERLKQQMPLGADCARYTTLSLLRRARMHIQKLEDQEQRARQLKERLRSKQQSLQRQLEQLRGLAGAAERERLR
ADSLDSSGLSSERSDSQEELEVDSLVFGEAELLRGFVAGQEHSYSHGGGAWL

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FIGURE 1834

CAACTCATGGCGGGCGGGCGGGCGGGCGGCAGCTGCTTGGGCGCGGTGCGGTGGTGACTGAGCTACGAGCCTGGCG
GCGGGTGTGCGCCGAGCCCCGGCCCCGGCCCCGGCCCTCGCGTGCCCTCCAGGCTCCGCACCCCTGATGCTGCGCG
GTGCTGAGCCCGCTTCGGCCGGGACGATGGTGAAGTATTTCTGGGCCAGAGCGTGCTCCGGAGTTCTTGGGACC
AAGTGTTCCCGCCTTCTGGCAGCGGTACCCGAATCCCTATAGCAAACATGTCTTGACGGAAGACATAGTACACC
GGGAGGTGACCCCTGACCAGAACTGCTGTCCCGGCGACTCTCTGACCAAGACCAACAGGATGCCACGCTGGGCCG
AGCGACTATTTCTGCCAATGTTGCTCACTCGGTGTACGTCTTGAGGACTCTATTGTGGACCCACAGAATCAGA
CCATGACTACCTTCACCTGGAAACATCAACCACGCCCCGGCTGATGGTGGTGGAGGAACGATGTGTTTACTGTGTGA
ACTCTGACAAACAGTGGCTGGACTGAAATCCGCCGGGAAGCCTGGGTCTCTCTAGCTTATTTGGTGTCTCCAGAG
CTGTCCAGGAATTTGGTCTTGCCCCGGTTCAAAAGCAACGTGACCAAGACTATGAAGGGTTTTGAATATATCTTGG
CTAAGCTGCAAGGCGAGGCCCCCTTCCAAAACACTTGTGTGAGACAGCCAAGGAAGCCAAGGAGAAGGCAAAGGAGA
CGGCACTGGCAGCTACAGAGAAGGCCAAGGACCTCGCCAGCAAGGCGGCCACCAAGAAGCAGCAGCAGCAGCAAC
AGTTTGTGTAGCCAGTCTACCACCACCACAGCACCCAGACAGCTAGGCTTAGCCCTCTGCCCTCCCTTCATTG
TACTTTATCATTAAAAATCAACTTCCAGCCCTGTCTGCTGTCTACGTGGTGGGTTGTGGGGATGCAGTTTGGCAT
CTGCAGTACACCAAGCACATGATTATGTCTGAGCCAGGTCTGCTTATTCTCCCATTTGGGCAGCTGAGGACCGAG
GCACAGAGGTGCGGTGACTTGCCCCGGGGCTCCAGGTAGCCTGCAGGTTAACTGGCGGTAAGTGCTAGACTGTAAG
CCCGACAAGGGCAGGGCTTTTGGTTTTGTTCTCTGATGTGTCTCAGTATCTAGCACATAATAGACACTCAATAAA
TACTTGTGTAATTCAAA

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FIGURE 1835

MVKYFLGQSVLRSSWDQVFAAFWQRYPNPYSKHVLTEDIVHREVTPDQKLLSRRLLTKTNRMPRWAERLF PANVA
HSVYVLEDSIVDPQNQTMTTFTWNINHARLMVVEERCVCVNSDMSGWTEIRREAWVSSSLFGVSRVQEFGLAR
FKSNVTKTMKGFYILAKLQGEAPSKTLVETAKEAKEKAKETALAATEKAKDLASKAATKKQQQQQFV

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FIGURE 1836

CCGAGGAGCGCTCGGGCTGTCTGCGGACCCTGCCGCGTGCAGGGGTGCGGGCCGGCTGGAGCTGGGAGTGAGGCG
GCGGAGGAGCCAGGTGAGGAGGAGCCAGGAAGGCAGTTGGTGGGAAGTCCAGCTTGGGTCCCTGAGAGCTGTGAG
AAGGAGATGCGGCTGCTGCTGGCCCTGTTGGGGGTCTCTGCTGAGTGTGCCTGGGCCTCCAGTCTTGTCCCTGGAG
GCCTCTGAGGAAGTGGAGCTTGAGCCCTGCCTGGTCTCCAGCCTGGAGCAGCAAGAGCAGGAGCTGACAGTAGCC
CTTGGGCAGCCTGTGCGGCTGTGCTGTGGGCGGGCTGAGCGTGGTGGCCACTGGTACAAGGAGGGCAGTCGCCTG
GCACCTGCTGGCCGTGTACGGGGCTGGAGGGGCCCTAGAGATTGCCAGCTTCCTACCTGAGGATGCTGGCCGC
TACCTCTGCCTGGCAGGAGCTCCATGATCGTCTGCAGAATCTCACCTTGATTACAGGTGACTCCTTGACCTCC
AGCAACGATGATGAGGACCCCAAGTCCCATAGGGACCTCTCGAATAGGCACAGTTACCCCCAGCAAGCACCCCTAC
TGGACACACCCCCAGCGCATGGAGAAGAACTGCATGCAGTACCTGCGGGGAACACCGTCAAGTTCCGCTGTCCA
GCTGCAGGCAACCCACGCCCACCATCCGCTGGCTTAAGGATGGACAGGCCTTTTCATGGGGAGAACCGCATTGGA
GGCATTTCGGCTGCGCCATCAGCACTGGAGTCTCGTGATGGAGAGCGTGGTGGCCTCGGACCGCGGCACATACACC
TGCTGGTAGAGAACGCTGTGGGCAGCATCCGCTATAACTACCTGCTAGATGTGCTGGAGCGGTCCCCGCACCGG
CCCATCCTGCAGGCCGGGCTCCCGGCCAACACCACAGCCGTGGTGGGCAGCGACGTGGAGCTGCTGTGCAAGGTG
TACAGCGATGCCAGCCCCACATCCAGTGGCTGAAGCACATCGTCATCAACGGCAGCAGCTTCGGAGCCGACGGT
TTCCCCATATGTGCAAGTCTTAAAGACTGCAGACATCAATAGCTCAGAGGTGGAGGTCTGTACCTGCGGAACGTG
TCAGCCGAGGACGCAGGCGAGTACACCTGCCTCGCAGGCAATTCCATCGGCCTCTCCTACCAGTCTGCCTGGCTC
ACGGTGCTGCCAGAGGAGGACCCACATGGACCGCAGCAGCGCCGAGGCCAGGTATACGGACATCATCCTGTAC
GCGTGGGGCTCCCTGGCCTTGGCTGTGCTCCTGCTGCTGGCCGGGCTGTATCGAGGGCAGGCGCTCCACGGCCGG
CACCCCGCCCGCCCGCCACTGTGCAGAAGCTCTCCCGCTTCCCTCTGGCCCCGACAGTTCTCCTGAGTCAAGC
TCTTCCGGCAAGTCAAGCTCATCCCTGGTACGAGGCGTGCCTCTCTCCTCCAGCGGCCCGCCTTGCTCGCCGGC
CTCGTGAGTCTAGATCTACCTCTCGACCCACTATGGGAGTTCCCCCGGGACAGGCTGGTGGCTTGGGAAGCCCCTA
GGCGAGGGCTGCTTTGGCCAGGTAGTACGTGCAGAGGCCTTTGGCATGGACCCTGCCCCGGCTGACCAAGCCAGC
ACTGTGGCCGTCAAGATGCTCAAAGACAACGCCTCTGACAAGGACCTGGCCGACCTGGTCTCGGAGATGGAGGTG
ATGAAGCTGATCGGCCGACACAAGAACATCATCAACCTGCTTGGTGTCTGCACCCAGGAAGGGCCCCCTGTACGTG
ATCGTGGAGTGCGCCGCAAGGGAAACCTGCGGGAGTTCTGCGGGCCCGCGCCCCCAGGCCCCGACCTCAGC
CCCGACGGTCTCGGAGCAGTGAGGGGGCCGCTCTCCTTCCAGTCTGGTCTCCTGCGCCTACCAGGTGGCCCGA
GGCATGCAGTATCTGGAGTCCCGGAAGTGTATCCACCGGGACCTGGCTGCCCAGCAATGTGCTGGTGAAGTGAAGGAC
AATGTGATGAAGATTGCTGACTTTGGGCTGGCCCGCGGCGTCCACCACATTGACTACTATAAGAAAACCAGCAAC
GGCCGCTGCTGTGAAGTGGATGGCGCCCGAGGCCTTGTGTGACCGGGTGTACACACACCAGAGTGACGTGTGG
TCTTTTGGGATCCTGCTATGGGAGATCTTACCCTCGGGGGCTCCCCGTATCCTGGCATCCCGGTGGAGGAGCTG
TTCTCGCTGCTGCGGGAGGGACATCGGATGGACCGACCCCACTGCCCCCAGAGCTGTACGGGCTGATGCGT
GAGTGTGGCAGCAGCGCCCTCCAGAGGCCTACCTTCAAGCAGCTGGTGGAGGCGCTGGACAAGGTCTGTGCTG
GCCGTCTCTGAGGAGTACCTCGACCTCCGCTGACCTTCGGACCCCTATTCCCCCTCTGGTGGGGACGCCAGCAGC
ACCTGCTCCTCCAGCGATTCTGTCTTACGCCACGACCCCTGCCATTGGGATCCAGCTCCTTCCCTTTCGGGTCT
GGGGTGCAGACATGAGCAAGGCTCAAGGCTGTGCAGGCACATAGGCTGGTGGCCTTGGGCCTTGGGGCTCAGCCA
CAGCCTGACACAGTGTCTGACCTTGATAGCATGGGGCCCCCTGGCCCAGAGTTGCTGTGCCGTGTCCAAGGGCCGT
GCCCTTGGCCTTGGAGCTGCCGTGCCTGTGTCTGATGGCCCAAATGTCAGGGTTCTGCTCGGCTTCTTGGACCA
TGGCGCTTAGTCCCCATCCCGGGTTTGGCTGAGCCTGGCTGGAGAGCTGCTATGCTAAACCTCCTGCCTCCCAAT
ACCAGCAGGAGGTCTGGGCCTCTGAACCCCTTTCCCCACACCTCCCCCTGCTGCTGCTGCCCCAGCGTCTTGA
CGGGAGCATTGGCCCTGAGCCCAGAGAAGCTGGAAGCCTGCCGAAAACAGGAGCAAATGGCGTTTTATAAATTA
TTTTTTTGAATAAA

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FIGURE 1837

MRLLLALLGVLLSVPGPPVLSLEASEEVELEPCCLAPSLEQQEQELTVALGQPVRLCCGRAERGHHWYKEGSRLAP
AGRVRGWRGRLEIASFLPEDAGRYLCLARGSMIVLQNLTLITGDSLTSNDDDEDPKSHRDLSNRHSYPQQAPYWT
HPQRMKKLHAVPAGNTVKFRCPAAGNPTPTIRWLKDGQAFHGENRIGGIRLRHQHWSLVMESVVPSDRGTYTCL
VENAVGSIRYNYLLDVLSRPHRPILQAGLPANTTAVVGSDVELLCKVYSDAQPHIQWLKHIVINGSSFGADGFP
YVQVLKTADINSSEVEVLYLRNVSAEDAGEYTCLAGNSIGLSYQSAWLTVLPEEDPTWTAAPEARYTDIILYAS
GSLALAVLLLLAGLYRGQALHGRHPRPPATVQKLSRFPLARQFSLESGSSGKSSSSLVRGVRLSSSGPALLAGLV
SLDPLDPLWEFPRDRLVLGKPLGEGCFGQVVRAEAFGMDPARPDQASTVAVKMLKDNASDKDLADLVSEMEVMK
LIGRHKNIINLLGVCTQEGPLYVIVECAAKGNLREFLRARRPPGPDLSPDGPRSSEGPLSFPVLVSCAYQVARGM
QYLESRKCIHRDLAARNVLVTEDNVMKIADFGGLARGVHHIDYYKKTSGRLPVKWMPEALFDRVYTHQSDVWSF
GILLWEIFTLGGSPYPGIPVEELFSLREGHRMDRPPHCPPELYGLMRECWAAPSQRPTFKQLVEALDKVLLAV
SEELYDLRLTFGPYSPSGGDASSTCSSSDSVFSDPLPLGSSSFPGSGVQT

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FIGURE 1838

CCGAGGAGCGCTCGGGCTGTCTGCGGACCCCTGCCGCGTGCAGGGGTGCGGGCCGGCTGGAGCTGGGAGTGAGGCG
GCGGAGGAGCCAGGTGAGGAGGAGCCAGGAAGGCAGTTGGTGGGAAGTCCAGCTTGGGTCCCTGAGAGCTGTGAG
AAGGAGATGCGGCTGTCTGTGGCCCTGTTGGGGGTCCTGCTGAGTGTGCCTGGGCCCTCCAGTCTTGTCCCTGGAG
GCCTCTGAGGAAGTGAGCTTGAGCCCTGCCTGGCTCCAGCCTGGAGCAGCAAGAGCAGGAGCTGACAGTAGCC
CTTGGGCAGCCTGTGCGGCTGTGCTGTGGGCGGGCTGAGCGTGGTGGCCACTGGTACAAGGAGGGCAGTCGCCTG
GCACCTGCTGGCCGTGTACGGGGCTGGAGGGGGCCGCCTAGAGATTGCCAGCTTCCTACCTGAGGATGCTGGCCGC
TACCTCTGCCTGGCACGAGGCTCCATGATCGTCCTGCAGAATCTCACCTTGATTACAGGTGACTCCTTGACCTCC
AGCAACGATGATGAGGACCCCAAGTCCCATAGGGACCTCTCGAATAGGCACAGTTACCCCCAGCAAGCACCCCTAC
TGGACACACCCCCAGCGCATGGAGAAGAACTGCATGCAGTACCTGCGGGGAACACCGTCAAGTTCGGCTGTCCA
GCTGCAGGCAACCCCCACGCCACCATCCGCTGGCTTAAGGATGGACAGGCCTTTTCATGGGGAGAACCGCATTGGA
GGCATTTCGGCTGCGCCATCAGCACTGGAGTCTCGTGATGGAGAGCGTGGTGCCCTCGGACCGCGGCACATACACC
TGCTTGGTAGAGAACGCTGTGGGCAGCATCCGCTATAACTACCTGCTAGATGTGCTGGAGCGGTCCCCGCACCGG
CCCATCCTGCAGGCCCGGGCTCCCGGCCAACACCACAGCCGTGGTGGGCAGCGACGTGGAGCTGCTGTGCAAGGTG
TACAGCGATGCCCAGCCCCACATCCAGTGGCTGAAGCACATCGTCATCAACGGCAGCAGCTTCGGAGCCGACGGT
TTCCCCCTATGTGCAAGTCTTAAAGACTGCAGACATCAATAGCTCAGAGGTGGAGGTCTGTACCTGCGGAACGTG
TCAGCCGAGGACGCAGGCGAGTACACCTGCCTCGCAGGCAATTCCATCGGCCTCTCCTACCAGTCTGCCTGGCTC
ACGGTGTGTCAGGTACTGGGCGCATCCCCACCTCACATGTGACAGCCTGACTCCAGCAGGCAGAACCAAGTCT
CCCCTTTGCACTTCTCCCTGGAGTCAGGCTCTTCCGGCAAGTCAAGCTCATCCCTGGTACGAGGCGTGCCTCTC
TCCTCCAGCGGCCCCGCCTTGCTCGCCGGCCTCGTGAGTCTAGATCTACCTCTCGACCCACTATGGGAGTTCCCC
CGGGACAGGCTGGTGCTTGGGAAGCCCCTAGGCGAGGGCTGCTTTGGCCAGGTAGTACGTGCAGAGGCCTTTGGC
ATGGACCCCTGCCCCGCTGACCAAGCCAGCACTGTGGCCGTCAAGATGCTCAAAGACAACGCCTCTGACAAGGAC
CTGGCCGACCTGGTCTCGGAGATGGAGGTGATGAAGCTGATCGGCCGACACAAGAACATCATCAACCTGCTTGGT
GTCTGCACCCAGGAAGGGCCCCCTGTACGTGATCGTGGAGTGCGCCGCCAAGGGAAACCTGCGGGAGTTCTTGC
GCCCCGGCCCCCAGGCCCCGACCTCAGCCCCGACGGTCTCGGAGCAGTGAGGGGCGCTCTCCTTCCCAGTC
CTGGTCTCCTGCGCTACCAGGTGGCCCCGAGGCATGCAGTATCTGGAGTCCCGGAAGTGTATCCACCGGGACCTG
GCTGCCCCGAATGTGCTGGTGACTGAGGACAATGTGATGAAGATTGCTGACTTTGGGCTGGCCCGCGGCTCCAC
CACATTGACTACTATAAGAAAACCAGCAACGGCCGCCTGCCTGTGAAGTGGATGGCGCCGAGGCCTTGTGTTGAC
CGGGTGTACACACACCAGAGTGACGTGTGGTCTTTTGGGATCCTGCTATGGGAGATCTTCACCTCGGGGGCTCC
CCGTATCCTGGCATCCCGGTGGAGGAGCTGTTCTCGCTGCTGCGGGAGGGACATCGGATGGACCGACCCCCACAC
TGCCCCCAGAGCTGTACGGGTGATGCGTGAGTGTGTCAGCAGCGCCCTCCAGAGGCCTACCTTCAAGCAG
CTGGTGGAGGCGCTGGACAAGGTCTGCTGGCCGTCTCTGAGGAGTACCTCGACCTCCGCTGACCTTCGGACCC
TATTTCCCCCTCTGGTGGGGACGCCAGCAGCACCTGCTCCTCCAGCGATTCTGTCTTCAGCCACGACCCCCCTGCCA
TTGGGATCCAGCTCCTTCCCCTTCGGGTCTGGGGTGCAGACATGAGCAAGGCTCAAGGCTGTGCAGGCACATAGG
CTGGTGGCCTTGGGCCTTGGGGCTCAGCCACAGCCTGACACAGTGTCTGACCTTGATAGCATGGGGCCCCCTGGCC
CAGAGTTGCTGTGCCGTGTCCAAGGGCCGTGCCCTTGCCCTTGGAGCTGCCGTGCCGTGTGCTGCTGATGGCCAAA
TGTCAGGGTTCTGCTCGGCTTCTTGACCATGGCGCTTAGTCCCCATCCCGGGTTTGGCTGAGCCTGGCTGGAGA
GCTGCTATGCTAAACCTCCTGCCTCCCAATACCAGCAGGAGGTTCTGGGCCTCTGAACCCCCCTTCCCCACACCT
CCCCCTGCTGCTGCTGCCCCAGCGTCTTGACGGGAGCATTGGCCCTGAGCCAGAGAAGCTGGAAGCCTGCCGA
AAACAGGAGCAAATGGCGTTTTATAAATTATTTTTTTTGAATAAA

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FIGURE 1839

MRLLLALLGVLLSVPGPPVLSLEASEEVELEPCCLAPSLEQQEQELTVALGQPVRLCCGRAERGHHWYKEGSRLAP
AGRVRGWRGRLEIASFLPEDAGRYLCLARGSMIVLQNLTLITGDSLTSNDDDEDPKSHRDLSNRHSYPQQAPYWT
HPQRMKKLHAVPAGNTVKFRCPAAGNPTPTIRWLKDGQAFHGENRIGGIRLRHQHWSLVMESVVPSDRGTYTCL
VENAVGSIRYNYLLDVLERSPHRPILQAGLPANTTAVVGSDVELLCKVYSDAQPHIQWLKHIVINGSSFGADGFP
YVQVLKTADINSSEVEVLRLNVSAEDAGEYTCLAGNSIGLSYQSAWLTVLPGTGRIPHLTCDSLTPAGRTKSPT
LQFSLESGSSGKSSSSLVRGVRLSSSGPALLAGLVSLDPLDPLWEFPRDRLVLGKPLGEGCFGQVVRAEAFGMD
PARPDQASTVAVKMLKDNASDKDLADLVSEMEVMKLIGRHKNIINLLGVCTQEGPLYVIVECAAKGNLREFLRAR
RPPGPDLSPDGPRSSEGPLSFPVLVSCAYQVARGMQYLESRKCIHRDLAARNVLVTEDNVMKIADFGGLARGVHHI
DYYKKTSNGLRPVKWMAPEALFDRVYTHQSDVWSFGILLWEIFTLGGSPYPGIPVEELFSLREGHRMDRPPHCP
PELYGLMRECWAAPSQRPTFKQLVEALDKVLLAVSEEYLDLRLTFGPYSPSGGDASSTCSSSDSVFSDPLPLG
SSSFPGSGVQT

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FIGURE 1840

GGACACCGCGCGGGACGGAGCTTGGCTGTTGGTTCGGTGGGTTCCCGTGCGGCGCGGCCCAAGGAGGAGGAGACACA
GTTGGAGCAGCTCCGIGGGCTGACTGGGGCGAGGCCCTCAGCAGCGCGAGCTTGAGTGCGCCGAGCCTGCGGCGC
CTTCCCTGCGGGTGGGGACGAGCGGGCCCCGCGGCGTCATCGGCGGCGAGGAGCCGCCGCGCCTCGGCCTAGCA
TGTCGGAAGCGGGCGAGGAGCAGCCCATGGAGACGACGGGCGCCACCGAGAACGGACATGAGGCCGTCCCCGAAG
GCGAGTCGCCGGCCGGGGCTGGCACGGGCGCCGCGGCGGGGGCTGGAGGCGCGACC GCGGGCGCCCCGAGCGGGA
ATCAGAACGGCGCCGAGGGCGACCAGATCAACGCCAGCAAGAACGAGGAGGACGCGGGAAAAATGTTTCGTTGGTG
GCCTGAGCTGGGATACTAGCAAAAAAGATTTAAAAGACTATTTTACTAAATTTGGAGAGGTGCTTGACTGTACAA
TAAAAATGGATCCCAACACTGGACGGTCAAGAGGGTTTGGGTTTATCCTGTTCAAAGATGCAGCCAGTGTGGAGA
AGGTCTTAGACCAGAAAGGAGCACAGGCTGGATGGCCGTGTCATTGACCCTAAAAAGGCCATGGCTATGAAGAAGG
ACCCGGTGAAGAAAATCTTCGTTGGGGGTCTGAATCCTGAAGCCACTGAGGAAAAGATCAGGGAGTACTTTGGCG
AGTTTGGGGAGATTGAGGCCATTGAATTGCCAATGGATCCAAAGTTGAACAAAAGACGAGGTTTTGTGTTTATCA
CTTTTAAAGAAGAAGAACCCGTGAAGAAGGTTCTGGAGAAAAGTTCCATACTGTCAGTGGAAGCAAGTGTGAGA
TCAAGGTGGCCAGCCCCAAAGAAGTCTATCAGCAGCAGCAGTATGGCTCTGGGGGCCGTGAAACCGCAACCGAG
GGAACCGAGGCAGCGGAGGTGGTGGTGGAGGTGGAGGTGAGGGTAGTACAACTACGGCAAGAGCCAGCGACGTG
GTGGCCATCAGAATAACTACAAGCCATACTGAGGCGGCAGCAGGAGCGACCAACTGATCGCACACATGCTTTGTT
TGGATATGGAGTGAACACAATTATGTACCAAATTTAACTTGGCAAACTTTCTATTGCCTGTCCCATGTGCATCTT
ATTTAAAATTTCCCCCATGGAAATCACTCTCCTGTTGACTATTTCCAGAGCTCTAGGTGTTTAGGCAGCGTGTGG
TGTCGTGAGAGGCCATAGCGCCATCATGGGCTGATTTTTATTACCAGGTCCCCAGAAGCAGGTGGGAGGCTCTGC
TTCTGCTGCCGCTCTGCAGCCTGGACCTGTGGACCCTGGTTGTAAAGAGTAAATTGTATCTTAGGAAACCAGTG
TCACCTTTTTTTTACCTTTTAATTTTATATTATTGCGTCATACATTTCTGTAAACGGAAGTGTTAATTTTACTG
TACTTTTTTGGTACCTTTTGGGAATCTAATGTATTGTAAGGTATTTTACACGTGTCCTGATTTTGCCACAACCTGG
ATATTGAAGCTATCCAAGCTTTTGAATAAAAATTTAAAAACCCCCAAGCCTGGGTGAGTGTGGG

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FIGURE 1841

GGCACCGCGCGGGACGGAGCTTGGCTGTTGGTCGGTGGGTTCCCGTGCGGCGGGCGGCCAAGGAGGAGGAGACACA
GTTGGAGCAGCTCCGTGGGCTGACTGGGGCGAGGCCTCAGCAGCGCGAGCTTGAGTGCGGCCGAGCCTGCGGCGC
CTTCCCCTGCGGGTGGGGACGAGCGGGCCCCGCGGCGTCATCGGCGGCGAGGAGCCGCCGCGCCTCGGCCTAGCA
TGTCGGAAGCGGGCGAGGAGCAGCCCATGGAGACGACGGCGGCCACCGAGAACGGACATGAGGCCGTCCCCGAAG
GCGAGTCGCCGGCCGGGGCTGGCACGGGCGCCGCGGCGGGGGCTGGAGGCGCGACCGCGGCGCCCCGAGCGGGA
ATCAGAACGGCGCCGAGGGCGACCAGATCAACGCCAGCAAGAACGAGGAGGACGCGGGAAAAATGTTTCGTTGGTG
GCCTGAGCTGGGATACTAGCAAAAAAGATTTAAAGACTATTTTACTAAATTTGGAGAGGTCGTTGACTGTACAA
TAAAAATGGATCCCAACACTGGACGGTCAAGAGGGTTTGGGTTTATCCTGTTCAAAGATGCAGCCAGTGTGGAGA
AGGTCCTAGACCAGAAGGAGCACAGGCTGGATGGCCGTGTCATTGACCCTAAAAAGGCCATGGCTATGAAGAAGG
ACCCGGTGAAGAAAAATCTTCGTTGGGGGTCTGAATCCTGAAGCCACTGAGGAAAAGATCAGGGAGTACTTTGGCG
AGTTTGGGGAGATTGAGGCCATTGAATTGCCAATGGATCCAAAGTTGAACAAAAGACGAGGTTTTGTGTTTATCA
CCTTTAAAGAAGAAGAACCCGTGAAGAAGGTTCTGGAGAAAAAGTTCCATACTGTCAGTGGAAGCCAGTGTGAGA
TCAAGGTGGCCCAGCCCAAAGAAGTCTATCAGCAGCAGCAGTATGGCTCTGGGGGGCCGTGGAACCGCAACCGAG
GGAACCGAGGCAGCGGAGGTGGTGGTGGAGGTGGAGGTGAGGGTAGTACAACTACGGCAAGAGCCAGCGACGTG
GTGGCCATCAGAATAACTACAAGCCATACTGAGGCGGCAGCAGGAGCGACCAACTGATCGCACACATGCTTTGTT
TGGATATGGAGTGAACACAATTATGTACCAAATTTAACTTGGCAAACCTTCTATTGCCTGTCCCATGTGCATCTT
ATTTAAAAATTTCCCCCATGGAAATCACTCTCCTGTTGACTATTTCCAGAGCTCTAGGTGTTTAGGCAGCGTGTGG
TGTCTGAGAGGCCATAGCGCCATCATGGGCTGATTTTTATTACCAGGTCCCCCAGAAGCAGGTGGGAGGCTCTGC
TTCCTGCTGCCGCTCTGCAGCCTGGACCTGTGGACCCTGGTTGTAAAGAGTAAATTGTATCTTAGGAAACCAGTG
TCACCTTTTTTTCACCTTTTAAATTTTATATTATTGCGTCATACATTTCTGTAAACGGAAGTGTTAATTTTACTG
TACTTTTTTGGTACCTTTTGGGAATCTAATGTATTGTAAGGTATTTTACACGTGTCCTGATTTTGGCACAACCTGG
ATATTGAAGCTATCCAAGCTTTTGAATAAAATTTAAAAACCCCCAAGCCTGGGTGAGTGTGGG

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FIGURE 1842

GAAATGTCTTACGATGATCATTTAGAGGTTTATTTTGAACAACCTGGCAATTCCACGAATGATGGAATAAACATA
TGAAGTAGAAGGACTGGAACCTCCAGAAAAAGTACTTTAAGTTACCTACAGGTGATCCTAGTCAGGTATGAATTG
ATAAGAAATGCCTGCACCTTCCCTCCTTCTATCTTTCCCTTGCCCTACAGAAAATTAAAAGGCCAAAACAATGGAC
ATCTACATATTCTTCATTTCAGATCAACCAGTGGCTAGCATTGCCCACCTTTTGCAGTTTCTTTCTCTTTCCATAA
GTACTTTTCTTCTCTGAATCATTGAAAGCAAATGAAAACAGTAGCCTAAAGTGTGAGTTTCAACCAGAAAATAAC
AGCTCTGATTTCTCATGGCTCACACTCTTCTGAAACGACTCGGGTAGAGGCTGAGGAAGGCCGTGTTGTTTGTCT
ACCTGGGACTAGTGGGATGAGAGACTGAGAAAAGAAATAAGACACGGAGACAAAGTACAGAGAAAGAACAGCGGG
CCCAGGAGACCGGCACTCAGCATACGGAGGACCAGCACTGGCACCGGCCTCTGAGTTCCCTCAGTTTATTGATTA
CCATTTTTCAGTGTCTCAGCAAGAGGAATGCGGTAGGAGAGCAGGGTGTGAGCAAGAAAACCTGTGAGCCTTTCT
TTCGCTGCTGCGGCCGAGCCATGAGCATGCTCGGGCCTCAGAAGAGGCTCGCCTCTAGTGTCTCCGCTGTGGC
AAGAAGAAGGTCTGGTTAGACCCAGTGAGACCAATGAAATCGCCAATGCCAACTCCCGTCAGCAGATCCGGAAG
CTCATCAAAGACGGGCTGATCATCCGCAAGCCTGTGACGGTCCATTCCCGGGCTCGATGCCGGAAAAACACCTTG
GCCCGCCGGAAGGGCAGGCACGTGGCCATAGGTGAGCAGAAGGGTACAGCCAATGCCCGAATGCCAGAGAAGGTC
ACATGGATGAGGAGAATGACGATTTTTCGCGCGGCTGCTCAGAAGATACCGTGAATCTAAGAAGATCGATCGCCAC
ACGTATCACAGCCTGTACCTGAAGGTGAAGGGGAATGTGTTCAAAGACAAGCGGATTCTCATGGAACACATCCAC
AAGCTGAAGGCAGACAAGGCCCGCAAGAAGCTCCTGGCTGACCAGGCTGAGGCCCCGAGGTCTAAGACCAAGGAA
GCAGGCAAGTGCCCTGAAGAGCGCCTCCAGGCCAAGAAGGAGGAGTTTCATCAAGACTTTATCCAAGGAGGAAGAG
ACCAAGAAATAAAAGCTCCCCCTTTGTCTGTACATACTGGCCTCTGTGATTACATAGATCAGCCATGAAAATAAA
ACAAGCCTTAA

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FIGURE 1843

GGCACGAGGCGCCCATCCTGGGAAGGGGCCCGAGTGTGAGAGAGAGACTCCCCACGCCCATCCTGGAAAGGAG
CCCGGAGTGTGAGCTGAGTGGTCCGAGCTATACCTGTGGACATTGGTTTCTCCATTGAAGAGCTGGAGGACCTTT
ACATGGTGTTTAAGGCCAAGCACCTGGCTAGCCAGTACTGGGGGTGCAGCCGCACA**ATG**CCCGGCCGTGCGGACC
CCAGCCTGCCCTACCTGGAGCAGTACCGGATTGATGCCAGCCAGTTCCGGGAACCTCTTGCCAGCCTGACACCCT
GGGCCTGTGGCTCCACACACCTCTGCTGGCAGGGCGCATGTTTCAAGCTCCTGGACGAAAACAAGGACTCGCTGA
TCAACTTCAAGGAGTTCGTGACAGGGATGAGCGGGATGTACCACGGGTACCTGACAGAGAAGCTCAAGGTGCTCT
ACAAGCTACACCTTCCCCCAGCTCTGAGCCCAGAGGAAGCCGAGTCAGCCCTGGAGGCGGCCCATTTATTTACAG
AGGACAGCTCCTCAGAAGAAGCACTACCACAGGAAGAGCAAGAAGGAAGTGAAGTGAGGAGAGAGGAGAGGAGA
AGGGGACCAGCTCTCCGGACTATCGGCACTACCTTCGAATGTGGGCCAAGGAGAAAGAGGCTCAGAAGGAGACGA
TTAAGGATCTTCCCAAGATGAACCAGGAGCAGTTTATTGAGCTGTGCAAGACGCTTTACAACATGTTTCACTGAAG
ACCCCATGGAGCAGGACCTGTACCACGCCATCGCCACCGTGGCCAGCCTCCTGCTCCGCATCGGAGAGGTGGGGA
AGAAGTTCTCAGCCCGCACAGGCAGGAAGCCCAGGGACTGTGCCACTGAGGAGGACGAGCCACCAGCACCCGAAC
TGCATCAGGACGCAGCCAGGGAGCTTCAGCCCCAGCTGCAGGAGACCCCAAGCCAAAGCAGGCGGAGACACAC
ACCTCGGAACAGCCCCACAGGAGAGCCAGGTGGTGGTGGAGGGGGCAGCGCGAGGGACAGGGCTCACCCCTCCC
AGCTGCTGTCTGACGATGAAACCAAAGACGACATGTCCATGTCTCTCTACTCGGTGGTCAGCACGGGCTCCCTGC
AATGTGAAGACCTTGACAGACGACCGGTGCTGGTGGGCGGGGAGGCCTGCAGCCCCACAGCGCGCATCGGCGGCA
CCGTCGACACCGACTGGTGCATCTCCTTTGAGCAGATCCTGGCCTCCATCCTGACGGAGTCCGTGCTGGTGAAC
TCTTTGAGAAGAGAGTGGACATTGGACTCAAGATCAAGGACCAAAAGAAAGTGGAGAGACAGTTTCAAGCACC
GTGACCATGAGCAGCCTGGAGTTTCCGGCT**TGAT**GCCTGCAGCTGTGAGGCCTGGCCCCAAGGTGTATCAGTGGGG
CTGGCCTCATCTCCTCCTGCCTTTCTCCCTTATCAGTTTCTCTTTAAAGGTGTGCCCCCTCCTGCTCTCCAGGA
GCAGTGAGTTGTGAGTGGAAAGAAGGCTGGTGCAGACCCAGCTGCCTTAGACAGATTCCCTGGGCCTGCATCTCC
TGGCGCCGGCTGCTTCTGGGCCCCAGGAAGAGGCTGTGGCTCCCACCTTCCCTTACACCTGGTGGGAGCCCGCTCG
CACCAGCTGCACCTGCCTAGCATTAGAGGCTCTCAGATCTGCCCTTGCTTGCCTCATACCTCTGTGCTCCACACT
GCGGCCAGGCCAGCTGAGTCCCTCCATCCGTGGATGCTTTCTGTCAGCTATGTGGTATGGGGGTCTTCTGCTCCT
CTTGTCACAGGTTGGGGGGCATGTGCTTGTGGGCACCAAAGTGATGGAACCTCAGGTGCTCTCCGGGAGCCT
GAACCTCCTGACTGAGGAACATGGGCAGAACATGTTTATTGCACAGAGTGGGCGCTGCGCACAGGCGTGGCTGTA
CACGTGCTCTCAGCTCATCATCCTTTCCAGTAACTTTAAAAAACATCCCTCAGGTCTGATATATTTCTTGA
TTCAATTTCACTTGGCTAGAAATTACACTGTGCTCAATGCCTTAATAAATCCCTGAAAGAAATAAAAAACCACTGTG
TGCAATGCCTTGCTGTGGCCCCCAACCACTGCTTAGGCCTCCCACTTCTCCCCAGGCCAAGTATGGGGCCCTGG
CTGTGTTCTGGAAGTTCAAGACACTTAGTCTCCACAGTGGGTGGAAGAGTGCAAGGTCTGCCAGGTGAGATGGA
GACGCAGAACCTGCTGGTGCAGCTGGGCAGGTCTTGACCAACCTGCATCAGGGGATGCCCTGAGCTCCACAGGT
CTTCATGGGCAGGGGTTGTGGGTCTGGTGAAGGAAGTGCATCCTCAGGCCTGGGCTGTAGCAAGCTGTCTGCCC
TTGGGTTCAAGAACCAGACTGTGGAGCCAAAGGTGACCGCAGGGGGCCCCAGGGCTGGAGCCACAAGGATACCTT
CACTTTGCATGAGGAGCTGAACTGACCAGTGTCCAGTGTAGCCCCACATGGGGCTGCTCTTGCTTCTACTAA
AAGATACAGCAGTTACCCCTTATCCACAGGGGATACAGTGGATATCTAAAACCAGACCCCAAGTGGATGTCTAA
AACCACAGATAATAACAAACCTTATACATACTGTTTTTCTATGCATACATACCTGTGATTAAAGTTTATGAATT
AGGCACCTTAAGAGATTGACAACAATAACTAATAATAAATGTAACGGTTATACTGTAAAAA
AAAAAAAAAAAAAAAAAAAAA

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FIGURE 1844

MAGRDP SLPYLEQYRIDASQFRELFASLTPWACGSHTPLLAGRMFRLLDENKDSLINFKEFVTGMSGMYHGylT
EKLKVLYKLHLPPALSPEEAESALEAAHYFTEDSSSEEALPQEEQEGSGSEERGEKGTSSPDYRHYLRMWAKEK
EAQKETIKDLPKMNQEQFIELCKTLYNMFSEDPMEQDLYHAIATVASLLLRIGEVGGKFSARTGRKPRDCATEED
EPPAPELHQDAARELQPPAAGDPQAKAGDTHLGTAPQESQVVVEGGSGEGQGPSQLLSDDETKDDMSMSSYSV
VSTGSLQCEDLADDTVLVGGEACSP TARIGGTVDTDWCISFEQILASILTESVLVNF FEKRVDIGLKIKDQKKVE
RQFSTASDHEQPGVSG

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FIGURE 1845

GCGCGGCGGCTGCGACCGGGACGGCCCCGTTTTCCGCCAGCTCGCCGCTCGCTATGGCGTCGCTCACCGTGAAGGC
CTACCTTCTGGGCAAGGAGGACGCGGCGCGAGATTGCGCGCTTCAGCTTCTGCTGCAGCCCCGAGCCTGAGGC
GGAAGCCGAGGCTGCGGCGGGTCCGGGACCCTGCGAGCGGCTGCTGAGCCGGGTGGCCGCCCTGTTCCCCGCGCT
GCGGCCTGGCGGCTTCCAGGCGCACTACCGCGATGAGGACGGGGACTTGGTTGCCTTTTCCAGTGACGAGGAATT
GACAATGGCCATGTCTTACGTGAAGGATGACATCTTCCGAATCTACATTAAAGAGAAAAAAGAGTGCCGGCGGGA
CCACCGCCCAACGCTGTGCTCAGGAGGCGCCCCGCAACATGGTGCACCCCAATGTGATCTGCGATGGCTGCAATGG
GCCTGTGGTAGGAACCCGCTACAAGTGCAGCGTCTGCCAGACTACGACTTGTGTAGCGTCTGCGAGGGAAAGGG
CTTGACACCGGGGGCACACCAAGCTCGCATTCCCCAGCCCCCTTCGGGCACCTGTCTGAGGGCTTCTCGCACAGCCG
CTGGCTCCGGAAGGTGAAACACGGACACTTCGGGTGGCCAGGATGGGAAATGGGTCCACCAGGAAACTGGAGCCC
ACGTCTCTCCTCGTGCAGGGGAGGCCCGCCCTGGCCCCACGGCAGAATCAGCTTCTGGTCCATCGGAGGATCCGAG
TGTGAATTTCTTGAAGAACGTTGGGGAGAGTGTGGCAGCTGCCCTTAGCCCTCTGGGCATTGAAGTTGATATCGA
TGTGGAGCACGGAGGGGAAAAGAAGCCGCTGACCCCCGTCTCTCCAGAGAGTTCAGCACAGAGGAGAAGAGCAG
CTCACAGCCAAGCAGCTGCTGCTCTGACCCCAGCAAGCCGGGTGGGAATGTTGAGGGCGCCACGCAGTCTCTGGC
GGAGCAGATGAGGAAGATCGCCTTGGAGTCCGAGGGGCGCCCTGAGGAACAGATGGAGTCGGATAACTGTTTCAGG
AGGAGATGATGACTGGACCCATCTGTCTTCAAAAGAAGTGGACCCGTCTACAGGTGAACTCCAGTCCCTACAGAT
GCCAGAATCCGAAGGGCCAAGCTCTCTGGACCCCTCCCAGGAGGGACCCACAGGGCTGAAGGAAGCTGCCTTGTA
CCCACATCTCCCGCCAGAGGCTGACCCGCGGCTGATTGAGTCCCTCTCCCAGATGCTGTCCATGGGCTTCTCTGA
TGAAGGCGGCTGGCTCACCAGGCTCCTGCAGACCAAGAACTATGACATCGGAGCGGCTCTGGACACCATCCAGTA
TTCAAAGCATCCCCCGCGTTGTGACCACTTTTGCCACCTCTTCTGCGTGCCCCCTTCTGTCTCATAGTTGTG
TTAAGCTTGCGTAGAATTGCAGGTCTCTGTACGGGCCAGTTTCTCTGCCTTCTTCCAGGATCAGGGGTTAGGGTG
CAAGAAGCCATTTAGGGCAGCAAAACAAGTGACATGAAGGGAGGGTCCCTGTGTGTGTGTGTGTGTGTGATGTTTCCT
GGGTGCCCTGGCTCCTTGCAGCAGGGCTGGGCCTGCGAGACCCAAGGCTCACTGCAGCGCGCTCCTGACCCCTCC
CTGCAGGGGCTACGTTAGCAGCCCAGCACATAGCTTGCCATAATGGCTTTCACTTTCTCTTTTGTTTTAAATGACT
CATAGGTCCCTGACATTTAGTTGATTATTTTCTGCTACAGACCTGGTACACTCTGATTTTAGATAAAGTAAGCCT
AGGTGTTGTGTCAGCAGGCAGGCTGGGGAGGCCAGTGTGTGGGCTTCCCTGCTGGGACTGAGAAGGCTCACGAAGGG
CATCCGCAATGTTGGTTTCACTGAGAGCTGCCTCCTGGTCTCTTCACCACTGTAGTTCTCTCATTTCCAAACCAT
CAGCTGCTTTTAAAAATAAGATCTCTTTGTAGCCATCCTGTAAATTTGTAAACAATCTAATTAATGGCATCAGC
ACTTTAACCAAT

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FIGURE 1846

TGCAGCCTCGGCCCCGCGGGCGCCCGCGCGCACCCGAGGAGATGAGGCTCCGCAATGGCACCTTCCTGACGCTG
CTGCTCTTCTGCCTGTGCGCCTTCTCTCGCTGTCTGGTACGCGGCACTCAGCGGCCAGAAAGGCGACGTTGTG
GACGTTTACCAGCGGGAGTTCTTGGCGCTGCGCGATCGGTTGCACGCAGCTGAGCAGGAGAGCCTCAAGCGCTCC
AAGGAGCTCAACCTGGTGTGGACGAGATCAAGAGGGCCGTGTCAGAAAGGCAGGCGCTGCGAGACGGAGACGGC
AATCGCACCTGGGGCCGCCTAACAGAGGACCCCCGATTGAAGCCGTGGAACGGCTCACACCGGCACGTGCTGCAC
CTGCCCACCGTCTTCCATCACCTGCCACACCTGCTGGCCAAGGAGAGCAGTCTGCAGCCCGCGGTGCGCGTGGGC
CAGGGCCGACCGGAGTGTGCGGTGGTGATGGGCATCCCGAGCGTGCGGCGCGAGGTGCACTCGTACCTGACTGAC
ACTCTGCACTCGCTCATCTCCGAGCTGAGCCCGCAGGAGAAGGAGGACTCGGTCATCGTGGTGCTGATCGCCGAG
ACTGACTCACAGTACACTTCGGCAGTGACAGAGAACATCAAGGCCTTGTTCCCCACGGAGATCCATTCTGGGCTC
CTGGAGGTCACTCTCACCTCCCCCACTTCTACCTGACTTCTCCCGCTCCGAGAGTCCTTTGGGGACCCCAAG
GAGAGAGTCAGGTGGAGGACCAACAGAACCTCGATTACTGCTTCTCATGATGTACGCGCAGTCCAAAGGCATC
TACTACGTGCAGCTGGAGGATGACATCGTGGCCAAGCCCACTACCTGAGCACCATGAAGAACTTTGCACTGCAG
CAGCCTTCAGAGGACTGGATGATCCTGGAGTTCTCCAGCTGGGCTTCATTGGTAAGATGTTCAAGTCGCTGGAC
CTGAGCCTGATTGTAGAGTTCACTCTCATGTTCTACCGGGACAAGCCCATCGACTGGCTCCTGGACCATATTCTG
TGGGTGAAAGTCTGCAACCCCGAGAAGGATGCGAAGCACTGTGACCGGCAGAAAGCCAACCTGCGGATCCGCTTC
AAACCGTCCCTCTTCCAGCACGTGGGCACTCACTCCTCGCTGGCTGGCAAGATCCAGAACTGAAGGACAAAGAC
TTTGGAAAGCAGGCGCTGCGGAAGGAGCATGTGAACCCGCCAGCAGAGGTGAGCACGAGCCTGAAGACATACCAG
CACTTCACCTGGAGAAAGCCTACCTGCGCGAGGACTTCTTCTGGGCCTTCACCCCTGCCGCGGGGACTTCATC
CGCTTCCGCTTCTTCCAACCTCTAAGACTGGAGCGGTTCTTCTTCCGAGTGGGAACATCGAGCACCCGGAGGAC
AAGCTCTTCAACACGTCTGTGGAGGTGCTGCCCTTCGACAACCTCAGTCAGACAAGGAGGCCCTGCAGGAGGGC
CGCACCGCCACCTCCGGTACCTCGGAGCCCCGACGGCTACCTCCAGATCGGCTCCTTCTACAAGGGAGTGGCA
GAGGGAGAGGTGGACCCAGCCTTCGGCCCTCTGGAAGCACTGCGCCTCTCGATCCAGACGGACTCCCCTGTGTGG
GTGATTCTGAGCGAGATCTTCTGAAAAAGGCCGACTAAGCTGCGGGCTTCTGAGGGTACCCTGTGGCCAGCCCT
GAAGCCACATTTCTGGGGGTGTCGTCACTGCCGTCCCCGGAGGGCCAGATACGGCCCCGCCAAAGGGTTCTGC
CTGGCGTCGGGCTTGGGCCGGCCTGGGGTCCGCCGTGGCCCGGAGGCCCTAGGAGCTGGTGCTGCCCCGCCCCG
CCGGGCCGCGGAGGAGGCAGGCGGCCCCACACTGTGCCTGAGGCCCGGAACCGTTGCGACCCGGCCTGCCCCAG
TCAGGCCGTTTTAGAAAGAGCTTTTACTTGGGCGCCCGCGTCTCTGGCGGAACACTGGAATGCATATACTACTT
TATGTGCTGTGTTTTTATTCTTGGATACATTGATTTTTTTCACGTAAGTCCACATATACTTCTATAAGAGCGTG
ACTTGTAATAAAGGGTTAATGAAG

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FIGURE 1847

MRLRNGTFLTLLLFCLCAFLSLSWYAALSGQKGDVVDVYQREFLALRDLHAAEQESLKRSKELNLVLDEIKRAV
SERQALRDGDGNRTWGRLETEDPRLKPWNGSHRHVLHLPTVFHHLPHLLAKESSLQPAVRVGQGRITGVSVMGIPS
VRREVHSYLTDTLHSLISELSPQEKEDSVIVVLIAETDSQYTSAVTENIKALFPTTEIHSGLLEVISPSPHFYPDF
SRLRESFGDPKERVWRWKQNLDYCFMMYAQSKGIYYVQLEDDIVAKPNYLSTMKNFALQQPSEDWMILEFSQL
GFIGKMFKSLDLSLIVEFILMFYRDKPIDWLLDHILWVKVCNPEKDAKHCDRQKANLRIRFKPSLQHVGTSSSL
AGKIQKLKDKDFGKQALRKEHVNPPAEVSTSLKTYQHFTLEKAYLREDDFFWAFTPAAGDFIRFRFFQPLRLERFF
FRSGNIEHPEDKLFNTSVEVLFPDNPQSDKEALQEGRTATLRYPRSPDGYLQIGSFYKGVAEGEVDPAFGPLEAL
RLSIQTDSPVWVILSEIFLKKAD

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FIGURE 1848

TTTTCAGAGACTCGCCTGGCAGAGGCCTGGAGCGTCTGCTGCGTGGACTGTGGGCACCGAGCCACCAGGAGGTT
GTTGATCTCATTCTTGCTCACTGGTCCCTGCCAGACTGGTGGTGCCTCTCTACTGTCGGGCAGCCCCACCTCTGT
GCTGCCCCATCCACCTACAGCCCTCATGCCTGGGCCCAGCTGGAGGTTCTGACAGGGGCCCCCTGGGGTGGCATG
CGGACCCTTCAGGGTGCCCCAGGCGCAGCACAGGTCTCCAGAGACACAGGCACCAGGGCGTTAGAGCTAGTCCC
CTCGCTGCTGTTGACTGTCCTTGAGCAGCCCCAGGGCCGGTTTCTCAACCTCATTGCTCACCTGAGCAATGAAG
TGAGGTGGGCTCCTGGAAGTGCAGCAGCCACCCCCGGGGCCATCGTGAGGCTAAGAATCCAGTGCAGGGTGAGC
AACCAGCGACCGCTACAAGGACAGTGAAGAGCTAGCACCAGGACCTTGGGTAGCCCCACCGCTGGAGGGAGCGTG
TGCTGCAAAAAGCAAGAGTGGGCTTTGGAGGCCAACGGATGGAGCGGATTCAGTCTGAGGCTGTTCCAGCCCTTG
CTTAGGATCCACCTACCTAGGTCTGGAAATCGTATTTCCACTTCAGATGCCTTCTCAGAGGATAAAATAACCCCC
GGTGGGGGAGAGTACTGGAAGAGGGCTAATTTCCCTGGTTTTCTCCCCATGAGCATTAGTGTCAGTGTAATTTTA
GAGTGACCCCAGCTATGTCACGTGTGGCAGGCACAAGAACAGATGTCAATGAGCTATTGCAGAGGTGGACACCCA
GATGTGTGCGCTGGCACACTGGAGGGGCCCCGTAGGGTGGCTCTAGACCGCCCCCTCGTGACGGCTTGCCTACCAC
CTGCAGGCGACGTTGTGGACGTTTACCAGCGGGAGTTCTGGCGCTGCGCGATCGGTTGCACGCAGCTGAGCAGG
AGAGCCTCAAGCGCTCCAAGGAGCTCAACCTGGTGCTGGACGAGATCAAGAGGGCCGTGTGAGAAAGGCAGGCGC
TGCGAGACGGAGACGGCAATCGCACCTGGGGCCGCCTAACAGAGGACCCCCGATTGAAGCCGTGGAACGGCTCAC
ACCGGCACGTGCTGCACCTGCCCACCGTCTTCCATCACCTGCCACACCTGCTGGCCAAGGAGAGCAGTCTGCAGC
CCGCGGTGCGCGTGGGCCAGGGCCGCACCGGAGTGTGCGTGGTGATGGGCATCCCGAGCGTGCGGCGCGAGGTGC
ACTCGTACCTGACTGACACTCTGCACTCGCTCATCTCCGAGCTGAGCCCCGAGGAGAAGGAGGACTCGGTTCATCG
TGGTGCTGATCGCCGAGACTGACTCACAGTACACTTCGGCAGTGACAGAGAACATCAAGGCCTTGTTCCCCACGG
AGATCCATTCTGGGCTCCTGGAGGTCTCTACCCCTCCCCCACTTCTACCCCTGACTTCTCCCGCTCCGAGAGT
CCTTTGGGGACCCCCAAGGAGAGAGTCAGGTGGAGGACCAACAGAACCTCGATTACTGCTTCCTCATGATGTACG
CGCAGTCCAAAGGCATCTACTACGTGCAGCTGGAGGATGACATCGTGGCCAAGCCCAACTACCTGAGCACCATGA
AGAACTTTGCACTGCAGCAGCCTTCAGAGGACTGGATGATCCTGGAGTTCTCCAGCTGGGCTTCATTGGTAAGA
TGTTCAAGTCGCTGGACCTGAGCCTGATTGTAGAGTTCATTCTCATGTTCTACCGGGACAAGCCCATCGACTGGC
TCCTGGACCATATTCTGTGGGTGAAAGTCTGCAACCCGAGAAGGATGCGAAGCACTGTGACCGGCAGAAAGCCA
ACCTGCGGATCCGCTTCAAACCGTCCCTCTTCCAGCACGTGGGCACTCACTCCTCGCTGGCTGGCAAGATCCAGA
AACTGAAGGACAAAGACTTTGGAAAGCAGGCGCTGCGGAAGGAGCATGTGAACCCGCCAGCAGAGGTGAGCACGA
GCCTGAAGACATAACCAGCACTTCACCCTGGAGAAAGCCTACCTGCGCGAGGACTTCTTCTGGGCCTTACCCCTG
CCGCGGGGGACTTCATCCGCTTCCGCTTCTTCCAACCTCTAAGACTGGAGCGGTTCTTCTTCCGAGTGGGAACA
TCGAGCACCCGGAGGACAAGCTCTTCAACACGTCTGTGGAGGTGCTGCCCTTCGACAACCCCTAGTCAGACAAGG
AGGCCCTGCAGGAGGGCCGCACCGCCACCCTCCGGTACCCTCGAGCCCCGACGGCTACCTCCAGATCGGCTCCT
TCTACAAGGGAGTGGCAGAGGGAGAGGTGGACCCAGCCTTCGGCCCTCTGGAAGCACTGCGCCTCTCGATCCAGA
CGGACTCCCCCTGTGTGGGTGATTCTGAGCGAGATCTTCTGAAAAGGCCGACTAAGCTGCGGGCTTCTGAGGGT
ACCCTGTGGCCAGCCCTGAAGCCCACATTTCTGGGGGTGTGCTCACTGCCGTCCCCGGAGGGCCAGATACGGCCC
CGCCCAAAGGGTTCTGCCTGGCGTCGGGCTTGGGCCGGCCTGGGGTCCGCCGCTGGCCCCGAGGCCCTAGGAGCT
GGTGCTGCCCCCGCCCGCCGGGCGCGGAGGAGGCAGGCGGCCCCACACTGTGCCTGAGGCCCCGAACCGTTTCG
CACCCGGCCTGCCCCAGTCAGGCCGTTTTAGAAAGAGCTTTTACTTGGGCGCCCCGCCGTCTCTGGCGCGAACACTG
GAATGCATATACTACTTTATGTGCTGTGTTTTTTATTCTTGATACATTTGATTTTTTTCACGTAAGTCCACATAT
ACTTCTATAAGAGCGTGACTTGTAATAAAGGGTTAATGAAG

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FIGURE 1849

MSRVAGTRTDVNELLQRWTPRCVRWHTGGARRVALDRPLVTACLPPAGDVVDVYQREFLALRDRLHAAEQESLKR
SKELNLVLDEIKRAVSERQALRDGDGNRTWGRLTEDPRLKPWNGSHRHVLHLPTVFHHLPHELLAKESSLQPAVRV
GQGRITGVSVVMGIPSVRREVHSYLTDTLHSLISELSPQEKEDSVIVVLI AETDSQYTS AVTENIKALFPT EIHSG
LLEVISPSPHFYPDFSRLRESFGDPKERVWRWKQNLDYCFLLMYAQSKGIYYVQLEDDIVAKPNYLSTMKNFAL
QQPSEDWMILEFSQLGFIGKMFKSLDLSLIVEFILMFYRDKPIDWLLDHILWVKVCNPEKDAKHCDRQKANLRIR
FKPSLFQHVGT HSSLAGKI QKLKDKDFGKQALRKEHVNPPAEVSTSLKTYQHFTLEKAYLREDDFFWAFTPAAGDF
IRFRFFQPLRLERFFFRSGNIEHPEDKLFNTSVEVL PFDNPQSDKEALQEGRTATLRYPRSPDGYLQIGSFYKGV
AEGEVDPAFGP LEALRLSIQTDS PVWVILSEIFLKKAD

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FIGURE 1850

TTTTTTTTTTCGTCTTAGCCACGCAGAAGTCGCGTGTCTAGTTTGTTCGACGCCGGACCGCGTAAGAGACGATG

ATGTTGGGCACGGAAGGTGGAGAGGGATTTCGTGGTGAAGGTCCGGGGCTTGCCCTGGTCTTGCTCGGCCGATGAA
GTGCAGAGGTTTTTTTTCTGACTGCAAAATTCAAAATGGGGCTCAAGGTATTTCGTTTCATCTACACCAGAGAAGGC
AGACCAAGTGGCGAGGCTTTTTGTTGAACCTGAATCAGAAGATGAAGTCAAATTGGCCCTGAAAAAGACAGAGAA
ACTATGGGACACAGATATGTTGAAGTATTCAAGTCAAACAACGTTGAAATGGATTGGGTGTTGAAGCATACTGGT
CCAAATAGTCCTGACACGGCCAATGATGGCTTTGTACGGCTTAGAGGACTTCCCTTTGGATGTAGCAAGGAAGAA
ATTGTTTCAGTTCTTCTCAGGGTTGGAAATCGTGCCAAATGGGATAACATTGCCGGTGGACTTCCAGGGGAGGAGT
ACGGGGGAGGCCCTTCGTGCAGTTTGCTTCACAGGAAATAGCTGAAAAGGCTCTAAAGAAACACAAGGAAAGAATA
GGGCACAGGTATATTGAAATCTTTAAGAGCAGTAGAGCTGAAGTTAGAACTCATTATGATCCACCACGAAAGCTT
ATGGCCATGCAGCGGCCAGGTCCTTATGACAGACCTGGGGCTGGTAGAGGGTATAACAGCATTGGCAGAGGAGCT
GGCTTTGAGAGGATGAGGCGTGGTGCTTATGGTGGAGGCTATGGAGGCTATGATGATTACAATGGCTATAATGAT
GGCTATGGATTTGGGTCAGATAGATTGGAAGAGACCTCAATTACTGTTTTTCAGGAATGTCTGATCACAGATAC
GGGGATGGTGGCTCTACTTTCCAGAGCACAAACAGGACACTGTGTACACATGCGGGGATTACCTTACAGAGCTACT
GAGAATGACATTTATAATTTTTTTTCCCGCTCAACCCTGTGAGAGTACACATTGAAATTGGTCCCTGATGGCAGA
GTAAGTGGTGAAGCAGATGTCGAGTTCGCAACTCATGAAGATGCTGTGGCAGCTATGTCAAAAAGACAAAGCAAAT
ATGCAACACAGATATGTAGAATCTTCTTGAATTCTACAGCAGGAGCAAGCGGTGGTGCTTACGAACACAGATAT
GTAGAATCTTCTTGAATTCTACAGCAGGAGCAAGCGGTGGTGCTTATGGTAGCCAAATGATGGGAGGCATGGGC
TTGTCAAACCAAGTCCAGCTACGGGGGGCCAGCCAGCCAGCAGCTGAGTGGGGGTACGGAGGCGGCTACGGTGGC
CAGAGCAGCATGAGTGGATACGACCAAGTTTTACAGGAAAACCTCCAGTGATTTTCAATCAAACATTGCATAGGTA
ACCAAGGAGCAGTGAACAGCAGCTACTACAGTAGTGGAAGCCGTGCATCTATGGGCGTGAACGGAATGGGAGGGT
TGTCTAGCATGTCCAGTATGAGTGGTGGATGGGGAATGTAATTGATCGATCCTGATCACTGACTCTTGGTCAACC
TTTTTTTTTTTTTTTTTTTTCTTTAAGAAAACCTTCAGTTTAAAGTTTCTGCAATACAAGCTTGTGATTTATGCTT
ACTCTAAGTGGAAATCAGGATTGTTATGAAGACTTAAAGCCAGTATTTTTGAATACAATACTCATCTAGGATGT
AACAGTGAAGCTGAGTAACTATACTGTTAACTTAAAGTTCCAGCTTTTCTCAAGTTAGTTATAGGATGTACTT
AAGCAGTAAGCGTATTTAGGTAAAAGCAGTTGAATTATGTTAAATGTTGCCCTTTGCCACGTTAAATTGAACACT
GTTTTGGATGCATGTTGAAAGACATGCTTTTTATTTTTTTTGTAAAACAATATAGGAGCTGTGTCTACTATTAAAA
GTGAAACATTTTGGCATGTTTGTTAATTCTAGTTTCAATTAATAACCTGTAAGGCACGTAAGTTTAAGCTTTTTT
TTTTTTTAAAGTTAATGGGAAAAATTTGAGACGCAATACCAATACTTAGGATTTTGGTCTTGGTGTGTTGTATGAAA
TTCTGAGGCCTTGATTTAAATCTTTCATTGTATTGTGATTTCCTTTTAGGTATATTGCGCTAAGTGAACCTTGTC
AAATAAATCCTCCTTTTAAAAACTGC

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FIGURE 1851

MMLGTEGGEGFVVKVRGLPWSCSADEVQRRFFSDCKIQNGAQGIRFIYTREGRPSGEAFVELESEDEVKLALKKDR
ETMGHRYVEVFKSNNVEMDWVLKHTGPNSPDTANDGFVRLRGLPFGCSKEEIVQFFSGLEIVPNGITLPVDFQGR
STGEAFVQFASQEI AEKALKKKH KERIGHRYIEIFKSSRAEVRTHYDPPRKLMMQRP GPYDRPGAGRGYNSIGRG
AGFERMRRGAYGGGYGGYDDYNGYNDGYGFGSDRFGRDLNYCFSGMSDHRYGDGGSTFQSTTGHCVHMRGLPYRA
TENDIYNFFSPLNPVRVHIEIGPDGRVTGEADVEFATHEDAVAAMSKDKANMQHRYVELFLNSTAGASGGAYEHR
YVELFLNSTAGASGGAYGSQMMGGMGLSNQSSYGGPASQQLSGGYGGGYGGQSSMSGYDQVLQENSSDFQSNIA

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FIGURE 1852

CTGCAAGGCGGGCAGGAGAGGTTGTGGTGCTAGTTTCTCTAAGCCATCCAGTGCCATCCTCGTCGCTGCAGCG
ACACCGCTCTCGCCGCCGCGCCATGACTGAGCAGATGACCCTTCGTGGCACCCCTCAAGGGCCACAACGGCTGGGTAA
CCCAGATCGCTACTACCCCGCAGTTCCCGGACATGATCCTCTCCGCCTCTCGAGATAAGACCATCATCATGTGGA
AACTGACCAGGGATGAGACCAACTATGGAATTCCACAGCGTGCTCTGCGGGGTCACTCCCACTTTGTTAGTGATG
TGGTTATCTCCTCAGATGGCCAGTTTGCCCTCTCAGGCTCCTGGGATGGAACCCCTGCGCCTCTGGGATCTCACAA
CGGGCACCACCACGAGGCGATTTGTGGGCCATACCAAGGATGTGCTGAGTGTGGCCTTCTCCTCTGACAACCGGC
AGATTGTCTCTGGATCTCGAGATAAAACCATCAAGCTATGGAATACCCTGGGTGTGTGCAAATACACTGTCCAGG
ATGAGAGCCACTCAGAGTGGGTGTCTTGTGTCCGCTTCTCGCCCAACAGCAGCAACCCATCATCGTCTCCTGTG
GCTGGGACAAGCTGGTCAAGGTATGGAACCTGGCTAACTGCAAGCTGAAGACCAACCACATTGGCCACACAGGCT
ATCTGAACACGGTGACTGTCTCTCCAGATGGATCCCTCTGTGCTTCTGGAGGCAAGGATGGCCAGGCCATGTTAT
GGGATCTCAACGAAGGCAAACACCTTTACACGCTAGATGGTGGGGACATCATCAACGCCCTGTGCTTCAGCCCTA
ACCGCTACTGGCTGTGTGCTGCCACAGGCCCCAGCATCAAGATCTGGGATTTAGAGGGAAAGATCATTGTAGATG
AACTGAAGCAAGAAGTTATCAGTACCAGCAGCAAGGCAGAACCACCCAGTGCACTTCCCTGGCCTGGTCTGCTG
ATGGCCAGACTCTGTTTGCTGGCTACACGGACAACCTGGTGCGAGTGTGGCAGGTGACCATTGGCACACGCTAGA
AGTTTATGGCAGAGCTTTACAAATA

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FIGURE 1853

MTEQMTLRGTLKGHNGWVTQIATTPQFPDMILSASRDKTIIMWKLTRDETNYGIPQRALRGHSHFVSDVVISSDG
QFALSGSWDGLRLWDLTTGTTTTRRFVGHTKDVLSVAFSSDNRQIVSGSRDKTIKLWNTLGVCKYTVQDESHSEW
VSCVRFSPNSSNPIIVSCGWDKLVKVWNLANCKLKTNHIGHTGYLNTVTVSPDGSILCASGGKDGQAMLWDLNEGK
HLYTLDGGDIINALCFSPNRYWLCAATGPSIKIWDLEGKIIIVDELKQEVISTSSKAEPPOCTSLAWSADGQTLFA
GYTDNLVRVWQVTIGTR

CGGGAGCCACGGAGCCACGGAGGAGGCCACGGAGGAGGCCACGGAGTCCGGAACGGGGCAGACCCCCCTCGAGCCGC
GAAGGAGCCCCGAGAAGCAGCCACGATGTGCGGAATCTTTGCTACATGAAGTACAGAGTCCCCCGGACGAGGAAG
GAGATCTTCGAAACCCTCATCAAGGGCTGCAGCGGCTGGAGTACAGAGGCTACGACTCGGCAGGTGTGGCGATC
GATGGGAATAATCACGAAGTCAAAGAAAGACACATTTCAGCTGGTCAAGAAAAGGGGGAAAGTCAAGGCTCTCGAT
GAAGAACTTTACAAACAAGACAGCATGGACTTAAAGTGGAGTTTGAGACACACTTCGGCATTGCCACACGCGC
TGGGCCACCCACGGGGTCCCCAGTGCTGTCAACAGCCACCCTCAGCGCTCAGACAAAGGCAACGAATTTGTTGTC
ATCCACAATGGGATCATCACAATTACAAAGATCTGAGGAAATTTCTGGAAAGCAAAGGCTACGAGTTTGAGTCA
GAAACAGATACAGAGACCATCGCCAAGCTGATTAAATATGTGTTTCGACAACAGAGAAACTGAGGACATTACGTTT
TCAACGTTGGTTCGAGAGAGTCATTTCAGCAGTTGGAAGGTGCATTTCGCGCTGGTTTTCAAGAGTGTCCACTACCCA
GGAGAAGCCGTTGCCACACGGAGAGGCAGCCCCCTGCTCATCGGAGTCCGGAGCAAATACAAGCTCTCCACAGAA
CAGATCCCTATCTTATACAGGACGTGCACTCTGGAGAATGTGAAGAATATCTGTAAGACACGGATGAAGAGGCTG
GACAGCTCCGCTGCTGCACTGTGTGGGCGACAAGGCCGTGGAATTTCTTTGCTTCTGATGCAAGCGCTATC
ATAGAGCACACCAACCGGGTTCATCTTCTGGAGGACGATGACATCGCCGCAGTGGCTGATGGGAAACTCTCCATT
CACCGGGTCAAGCGCTCGGCCAGTGATGACCCATCTCGAGCCATCCAGACCTTGAGATGGAAGTGCAGCAAATC
ATGAAAGGTAACCTTCAGTGCCTTTATGCAGAAGGAGATCTTCGAACAGCCAGAATCAGTTTTCAATACTATGAGA
GGTCGGGTGAATTTTGAACCAACACAGTGTCTCTGGGTGGCTTGAAGGACCACTTGAAGGAGATTCGACGATGC
CGACGGCTCATCGTGATTGGCTGTGGAACCAGCTACCACGCTGCCGTGGCTACGCGGCAAGTTTTGGAGGAACTG
ACTGAGCTTCTGTGATGGTTGAACTTGCTAGTGATTTCTGGACAGGAACACACCTGTGTTTCAGGGATGACGTT
TGCTTTTTTCATCAGCCAGTCAGGCGAGACC CGGACACCCTCTGGCGCTGCGCTACTGTAAGGACCGCGGCGCT
CTCACCGTGGGCGTCACCAACACCGTGGGCAGTCCATCTCTCGCGAGACCGACTGCGGCGTCCACATCAACGCA
GGGCGCGAGATCGGCGTGGCCAGCACCAAGGCTTATACCAGTCAGTTCATCTCTCTGGTGATGTTTGGTTTGATG
ATGTCTGAAGACCGAATTTCACTACAAAACAGGAGGCAAGAGATCATCCGTGGCTTGAGATCTTTACCTGAGCTG
ATCAAGGAAGTGCTGTCTCTGGAGGAGAAGATCCACGACTTGGCCCTGGAGCTCTACACGCAGAGATCGCTGCTG
GTGATGGGGCGGGGCTACAACATGCCACCTGCCTGGAAGGAGCCCTGAAATTAAGAGATAACCTACATGCAC
TCAGAAGGCATCCTGGCTGGGGAGCTGAAGCACGGGCCCTGGCACTGATTGACAAGCAGATGCCCGTCATCATG
GTCATTATGAAGGATCCTTGCTTCGCCAAATGCCAGAACGCCCTGCAGCAAGTCACGGCCCGCCAGGGTTCGCCCC
ATTATACTGTGCTCCAAGGACGATACTGAAAGTTCCAAGTTTTCGTATAAGACAATTGAGCTGCCCCACACTGTG
GACTGCCTCCAGGGCATCCTGAGCGTGATTCCGCTGCAGCTGCTGTCTTCCACCTGGCTGTTCTCCGAGGATAT
GACGTTGACTTCCCCAGAAATCTGGCCAAGTCTGTAAGTGTGGAATGAGGCTGAGACCGTGACAAGACCATCACC
ACCTTTCATCTGATTCCAGACCTGTCCCAACAGCAGGGATGCTACATGGGAAGAGAAGTGGACATCCCACATGTT
CTGCGTGCTCCTGTAGAGCTTGACAGCTTCCACGTGCCTTCTACCCAAGTGCTTTTGCTTACAGCAGATACTGTT
TCTCTGTGCTCCTGAAGTCGCCAGAGGAGAAGGGAATCATGTGTTACACATGGGGATCAGAGCAGACTTCTCCACT
ACTGTGCAATAGAGATACAGCTCTCTTCAGAGTAACTGTGAACCTTTTATAACCAACACTAGAGTTAGTTTTAA
AGACAAGATATTTATAATGACGACTGTATAGCTTTTAAAGTTATTTTCTAGTATGTGGCTTTCTGTAGCCGTGGT
AACGGCCAAACTGTTTCATCCTAGCTACCCATGCTCTGTGTCCAGGCTTGCTCCTGGCAGGTGGCATTTCATCTCAG
ATGTGAGCACAAGGCATTGGCCCTCTGGACTCCTTTCTCCTTTTCTTCTCTCTAGGCTGCTCCTGAATCCTGT
TCTCTGACATCCGTGGAGCCCCCTCTGCATCCACCTATGCCTCCTATAAGTCCAGTTGAAATCTCAGCCTCCTTC
AACATTTTCTTCTCGTGTGTGGCCACATCCCTCCACTTCTCCAACCTCTGTTTAAATCTGATCACGGCTCTTTTT
AAGCCCTGGCAGCATTTTGGTCCCTGCTCCTTGCCCATAGTAAACAGCTTGAAATATCCCATGCAAGAGAGTAG
TTTCAAGTGGGCGACTCTGCTCTCTATTTAAAGCGTGCACAATCAAAGTACTATGCAATTTTAGGACAATAAA
GAACATACAGTTCC

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FIGURE 1855

MCGIFAYMNYRVPRTTRKEIFETLIKGLQRLLEYRGYDSAGVAIDGNNHEVKERHIQLVKKRGKV KALDEELYKQDS
MDLKVEFETHFGIAHTRWATHGVPSAVNSHPQRSDDKNEFVVIHNGIITNYKDLRKFLSKGYEFES ETD TETIA
KLIKVFVDNRETEDITFSTLVERVIQQLLEGAFALVFKSVHYPGEAVATRRGSPLLIGVRSKYKLSTEQIPILYRT
CTLENVKNICKTRMKRLDSSACLHAVGDKAVEFFFFASDASAIIEHTNRVIFLEDDDIAAVADGKLSIHRVKRSAS
DDPSRAIQTLQMELOQIMKGNFSAFMQKEIFEQPESVFNTMRGRVNFETNTVLLGGLKDHLKEIRRCRRLIVIGC
GTSYHAAVATRQVLEELTELPVMVELASDFLDRNTPVFRDDVCFFISQSGETADTLLALRYCKDRGALT VGV TNT
VGSSISRETDCGVHINAGPEIGVASTKAYTSQFISLVMFGLMMSEDRLSLQNRREQEIRGLRSLPELIKEVLSLE
EKIHDLALELYTQRSLLVMGRGYNATCLEGALKIKEITYMHSEGILAGELKHGPLALIDKQMPVIMVIMKDPCF
AKCQNALQQVTARQGRPIILCSKDDTESSKFAYKTIELPHTVDCLQGILSVIPLQLLSFHLAVLRGYDVDFPRNL
AKSVTVE

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FIGURE 1856

ATGGAGAACCGAGGAAGAGAAACAGGTTTTGTGGAAGACAAGCACAAAGTCCACGCCTAGGTGTATGGGAAGTGAG
GTCCTCATGGGGCATAGCTACAGAGATCCCTTTTTTGGAGGGATGACTCGAGATGAAGATGATGATGAGGAAGAA
GAGGAAGAAGGGGGCTCATGGGGCTGTGGGAACCCAAGCTTCAGCCCAGGAGGAGGGATACGTTTCCACGATAAC
TTCGGCTTTGATGACCTAGTACAAGATTTCAATAGCATCTTCAGCAATATGGGGGCCTGGACCTTGCTTCCCAT
CCTCCTGAACTTCCAGGTTCTGAGTCAGAGACACCTGGTGAGAGACTGCGGGAGGGACAGGCACTTCGAGAATCA
ATGCTTAAGTATCCAGATAGTCACCAGCCCAGGATCTTTGAGGGGGTCTTGGAGAGTGATGCAAGAAGAGCGTCT
TGGCCCGGTTCTACAGCCCCAGCCCAGATCTACTTCAAGAGCATCTCTGTGACCAAATCACTAAGCCAGATGGG
ATAGTGGAGGAGCGCTGGACTGTGGTGGACACCCTGGATGATGCCTTCTCCATCCTGGACTTATTCCTAGGATGC
TGGTTCCGGTCCCGGTAG

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FIGURE 1857

ATGGCCCCACAGTGTGGAGAGTGGACGGACAGACAGAAGCAGTGTGTGCAGCCTTGCCTCTCATCAGAGTCACT
GGGAGCAGGATTTCTTTGACCTCGCTGAGTACACTGCGGACGTTGACGGAGTTGGCACTCTACGACTTCTAGAT
GCAGTTAAGACTTGTGGCCTTATCAACTCTGTGAAGTTCTACCAAGCCTCAACAAGTGAACTTTATGGGAAAGTG
CAGGAAATACCCCAGAAGGAGACCACCCCTTTCTATCCCCGGTCACCCCTATGGTGAGAACATGCGTGCACACCGG
AGCACATGTGTGGCGTTATCTGTGGGTGTGGGGGGGGCAGCAAACTCTATGCCTATTGGATTGTGGTGAAC TTC
CGTGAGGCGTATAATCTCTTTGCAGTGAACGGCATTCTCTTCAATCATGAGAGTCCCAGAAGAGGAGATCAGTTG
AAGATTTCCGTCTTTTCGATGA

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FIGURE 1858

CTGATGGCATCTTCTAAGCTGAAATGAATGAGTTTCTTACTCAGGAGCTGGCTGAAGATGGCTACTCTGGAGTTG
AGATGCGAGTTACACCAACCAGGACAGAAATCATTGTCCTTAGCCACCAGAACACAGAATGTTCTTGGTGAGAAGG
GCCGGCGGATTTCGGGAAGTACTGCTGTAGTTCAGAAGAGGTTTGGCTCTCCAGGCAGAGTCTCTGCCTTACAAA
GTCCTAGGAGGGCTTGCTGTGCGGAGGGCCTGCTATGGTGTGTCGCGGTTTCATCATGGAAACTGGGGCCAAAGGC
TGTGAGGTCGTGGTGTCTGGGAAACTCTGAGGACAGAGAGCTAAATCCATGAAGTTTGTGGA

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FIGURE 1859A

CCGACCAACACCAACACCCAGCTCCGACGCAGCTCCTCTGCGCCCTTGCCGCCCTCCGAGCCACAGCTTTCCTCC
CGCTCCTGCCCCCGCCCCGTGCGCGTCTCCGCGCTCGCAGCGGCCCTCGGGAGGGCCCCAGGTAGCGAGCAGCGACC
TCGCGAGCCTTCCGCACTCCCGCCCCGTTCCCGGCCGCTCCGCCTATCCTTGCCCCCTCCGCTTCTCCGCGCC
GGCCCCGCTCGCTTATGCCTCGGCGCTGAGCCGCTCTCCCGATTGCCCGCCGACATGAGCTGCAACGGAGGCTCC
CACCCGCGGATCAACACTCTGGGCGCATGATCCGCGCCGAGTCTGGCCCCGACCTGCGCTACGAGGTGACCAGC
GGCGGCGGGGACACCAGCAGGATGTACTATTCTCGGCGCGGCGTGATCACCGACCAGAACTCGGACGGCTACTGT
CAAACCGGCACGATGTCCAGGCACCAGAACCAGAACCATCCAGGAGCTGCTGCAGAACTGCTCCGACTGCTTG
ATGCGAGCAGAGCTCATCGTGACGCTGAATTGAAGTATGGAGATGGAATACAACCTGACTCGGAGTCGAGAATTG
GATGAGTGTTTTGCCAGGCCAATGACCAAATGGAAATCCTCGACAGCTTGATCAGAGAGATGCGGCAGATGGGC
CAGCCCTGTGATGCTTACCAGAAAAGGCTTCTTCAGCTCCAAGAGCAAAATGCGAGCCCTTTATAAAGCCATCAGT
GTCCCTCGAGTCCGCAGGGCCAGCTCCAAGGGTGGTGGAGGCTACACTTGTGAGAGTGGCTCTGGCTGGGATGAG
TTCACCAAACATGTACACAGTGAATGTTTGGGGTGGATGAGGCAGCAAAGGGCGGAGATGGACATGGTGGCCTGG
GGTGTGGACCTGGCCTCAGTGGAGCAGCACATTAACAGCCACCGGGGCATCCACAACCTCCATCGGCGACTATCGC
TGGCAGCTGGACAAAATCAAAGCCGACCTGCGCGAGAAATCTGCGATCTACCAGTTGGAGGAGGAGTATGAAAAC
CTGCTGAAAGCGTCCTTTGAGAGGATGGATCACCTGCGACAGCTGCAGAACATCATTAGGCCACGTCCAGGGAG
ATCATGTGGATCAATGACTGCGAGGAGGAGGAGCTGCTGTACGACTGGAGCGACAAGAACACCAACATCGCTCAG
AAACAGGAGGCCTTCTCCATACGCATGAGTCAACTGGAAGTTAAAGAAAAGAGCTCAATAAGCTGAAACAAGAA
AGTGACCAACTTGTCTCAATCAGCATCCAGCTTCAGACAAAATGAGGCCTATATGGACACTCTGCAGACGCAG
TGGAGTTGGATTCTTCAGATCACCAAGTGCATTGATGTTTATCTGAAAAAATGCTGCCTACTTTTCAGTTTTTTG
AAGAGGCGCAGTCTACTGAAGCATACCTGAAGGGGCTCCAGGACTCCATCAGGAAGAAGTACCCCTGCGACAAGA
ACATGCCCCCTGCAGCACCTGCTGGAACAGATCAAGGAGCTGGAGAAAAGAACGAGAGAAAATCCTTGAATACAAGC
GTCAGGTGCAGAACTTGGTAAACAAGTCTAAGAAGATTGTACAGCTGAAGCCTCGTAACCCAGACTACAGAAGCA
ATAAACCATTATTCTCAGAGCTCTCTGTGACTACAAACAAGATCAGAAAATCGTGATAAGGGGGATGAGTGTA
TCCTGAAGGACAACAACGAGCGCAGCAAGTGGTACGTGACGGGCCCCGGGAGGCGTTGACATGCTTGTTCCTCTG
TGGGGCTGATCATCCCTCCTCCGAACCCACTGGCCGTGGACCTCTCTTGCAAGATTGAGCAGTACTACGAAGCCA
TCTTGGCCTGTGGAACAGCTCTACATCAACATGAAGAGCCTGGTGTCTTGGCACTACTGCATGATTGACATAG
AGAAGATCAGGGCCATGACAATCGCCAAGCTGAAAAAATGCGGCAGGAAGATTACATGAAGACGATAGCCGACC
TTGAGTTACATTACCAAGAGTTTATCAGAAATAGCCAAGGCTCAGAGATGTTTGGAGATGATGACAAGCGGAAAA
TACAGTCTCAGTTCACCGATGCCCAGAAGCATTACCAGACCCTGGTCATTTCAGCTCCCTGGCTATCCCCAGCACC
AGACAGTGACCACAACCTGAAATCACTCATCATGGAACCTGCCAAGATGTCAACCATAATAAAGTAATTGAAACCA
ACAGAGAAAATGACAAGCAAGAAACATGGATGCTGATGGAGCTGCAGAAGATTTCGAGGCAGATAGAGCACTGCG
AGGGCAGGATGACTCTCAAAAACCTCCCTCTAGCAGACCAGGGATCTTCTACCACATCAGAGTAAAAATTAACG
AGCTTAAGAGTGTGAGAATGATTACAAAGCAATTGCTGAGGTTCTCAACCAGCTTAAAGATATGCTTGCCAAC
TCAGAGGTTCTGAAAAGTACTGCTATTTACAGAATGAAGTATTTGGACTATTTTCAGAACTGAAAAATATCAATG
GTGTTACAGATGGCTACTTAAATAGCTTATGCACAGTAAGGGCACTGCTCCAGGCTATTCTCCAAACAGAAGACA
TGTTAAAGGTTTATGAAGCCAGGCTCACTGAGGAGGAAACTGTCTGCCTGGACCTGGATAAAGTGAAGCTTACC
GCTGTGGACTGAAGAAAATAAAAAATGACTTGAACCTGAAGAAGTCGTTGTTGGCCACTATGAAGACAGAAGTAC
AGAAAGCCCAGCAGATCCACTCTCAGACTTCACAGCAGTATCCACTTTATGATCTGGACTTGGGCAAGTTCGGTG
AAAAAGTCACACAGCTGACAGACCGCTGGCAAAGGATAGATAAACAGATCGACTTTAGGTTATGGGACCTGGAGA
AACAAATCAAGCAATTGAGGAATTATCGTGATAACTATCAGGCTTTCTGCAAGTGGCTCTATGATGCTAAACGCC
GCCAGGATTCCTTAGAATCCATGAAATTTGGAGATTCCAACACAGTCATGCGGTTTTTGAATGAGCAGAAGAACT
TGCACAGTGAAATATCTGGCAAACGAGACAAATCAGAGGAAGTACAAAAAATTGCTGAACCTTTCGCCAATTCAA
TTAAGGATTATGAGCTCCAGCTGGCCTCATACCTCAGGACTGGAACTCTGCTGAACATACCTATCAAGAGGA
CCATGATTAGTCCCCTTCTGGGGTGATTCTGCAAGAGGCTGCAGATGTTTATGCTCGGTACATTGAACTACTTA
CAAGATCTGGAGACTATTACAGGTTCTTAAGTGAGATGCTGAAGAGTTTGAAGATCTGAAGCTGAAAAATACCA
AGATCGAAGTTTTGGAAGAGGAGCTCAGACTGGCCCGAGATGCCAACTCGGAAAACCTGTAATAAGAACAAATTC
TGGATCAGAACCTGCAGAAATACCAGGCAGAGTGTTCCAGTTCAAAGCGAAGCTTGCGAGCCTGGAGGAGCTGA
AGAGACAGGCTGAGCTGGATGGGAAGTCGGCTAAGCAAAATCTAGACAAGTGCTACGGCCAAATAAAGAAGTCA

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FIGURE 1859B

ATGAGAAGATCACCCGACTGACTTATGAGATTGAAGATGAAAAGAGAAGAAGAAAATCTGTGGAAGACAGATTG
ACCAACAGAAGAATGACTATGACCAACTGCAGAAAGCAAGGCAATGTGAAAAGGAGAACCCTTGGTTGGCAGAAAT
TAGAGTCTGAGAAAAGCCATCAAGGAGAAGGAGTACGAGATTGAAAGGTTGAGGGTTCTACTGCAGGAAGAAGGCA
CCCGGAAGAGAGAATATGAAAATGAGCTGGCAAAGGTAAGAAACCACTATAATGAGGAGATGAGTAATTTAAGGA
ACAAGTATGAAAACAGAGATTAACATTACGAAGACCACCATCAAGGAGATATCCATGCAAAAAGAGGATGATTCCA
AAAATCTTAGAAAACAGCTTGATAGACTTTCAAGGGAAAATCGAGATCTGAAGGATGAAATTGTCAGGCTCAATG
ACAGCATCTTGCAGGCCACTGAGCAGCGAAGGCGAGCTGAAGAAAACGCCCTTCAGCAAAAGGCCTGTGGCTCTG
AGATAATGCAGAAGAAGCAGCATCTGGAGATAGAAGTGAAGCAGGTCATGCAGCAGCGCTCTGAGGACAATGCCC
GGCACAAGCAGTCCCTGGAGGAGGCTGCCAAGACCATTGAGGACAAAAATAAGGAGATCGAGAGACTCAAAGCTG
AGTTTCAGGAGGAGGCCAAGCGCCGCTGGGAATATGAAAATGAACTGAGTAAGGTAAGAAACAATTATGATGAGG
AGATCATTAGCTTAAAAATCAGTTTGAGACCGAGATCAACATCACCAAGACCACCATCCACCAGCTCACCATGC
AGAAGGAAGAGGATACCAAGTGGCTACCGGGCTCAGATAGACAATCTCACCCGAGAAAACAGGAGCTTATCTGAAG
AAATAAAGAGGCTGAAGAACACTCTAACCCAGACCACAGAGAATCTCAGGAGGGTGGAAAGAAGACATCCAACAGC
AAAAGGCCACTGGCTCTGAGGTGTCTCAGAGGAAACAGCAGCTGGAGGTTGAGCTGAGACAAGTCACTCAGATGC
GAACAGAGGAGAGCGTAAGATATAAGCAATCTCTTGATGATGCTGCCAAAACCATCCAGGATAAAAAACAAGGAGA
TAGAAAGGTTAAAAACACTGATCGACAAAGAAACAAATGACCGGAAATGCCTGGAAGATGAAAACGCGAGATTAC
AAAGGGTCCAGTATGACCTGCAGAAAGCAAACAGTAGTGCGACGGAGACAATAAACAACTGAAGGTTTCAGGAGC
AAGAACTGACACGCCTGAGGATCGACTATGAAAGGGTTTCCAGGAGAGGACTGTGAAGGACCAGGATATCACGC
GGTTCAGAACTCTCTGAAAGAGCTGCAGCTGCAGAAGCAGAAGGTGGAAGAGGAGCTGAATCGGCTGAAGAGGA
CCGCGTCAGAAAGACTCCTGCAAGAGGAAGAAGCTGGAGGAAGAGCTGGAAGGCATGAGGAGGTCGCTGAAGGAGC
AAGCCATCAAAATCACCAACCTGACCCAGCAGCTGGAGCAGGCATCCATTGTTAAGAAGAGGAGTGAGGATGACC
TCCGGCAGCAGAGGGACGTGCTGGATGGCCACCTGAGGGAAAAGCAGAGGACCCAGGAAGAGCTGAGGAGGCTCT
CTTCTGAGGTCGAGGCCCTGAGGCGGCAGTTACTCCAGGAACAGGAAAGTGTCAAACAAGCTCACTTGAGGAATG
AGCATTTCCAGAAGGCGATAGAAGATAAAAGCAGAAGCTTAAATGAAAGCAAAATAGAAATTGAGAGGCTGCAGT
CTCTCAGAGAACTGACCAAGGAGCACTTGATGTTAGAAGAAGAACTGCGGAACCTGAGGCTGGAGTACGATG
ACCTGAGGAGAGGACGAAGCGAAGCGGACAGTGATAAAAATGCAACCATCTTGGAACCTAAGGAGCCAGCTGCAGA
TCAGCAACAACCGGACCTGGAACCTGCAGGGGCTGATTAATGATTACAGAGAGAGAGGGGAAAATTTGAGACAGG
AAATTGAGAAATTTCAAAAGCAGGCTTTAGAGGCATCTAATAGGATTCAGGAATCAAAGAATCAGTGTACTCAGG
TGGTACAGGAAAGAGAGAGCCTTCTGGTGAAAATCAAAGTCTTGAGCAAGACAAGGCAAGGCTGCAGAGGCTGG
AGGATGAGCTGAATCGTGCAAAATCAACTCTAGAGGCAGAAACAGGCTGAAACAGCGCCTGGAGTGTGAGAAAC
AGCAAAATTCAGAATGACCTGAATCAGTGGAAGACTCAATATTCCCGCAAGGAGGAGGCTATTAGGAAGATAGAAT
CGGAAAGAGAAAAGAGTGAGAGAGAGAAGAACAGTCTTAGGAGTGAGATCGAAAGACTCCAAGCAGAGATCAAGA
GAATTGAAGAGAGGTGCAGGCGTAAGCTGGAGGATTCTACCAGGGAGACACAGTCACAGTTAGAAACAGAACGCT
CCCGATATCAGAGGGAGATTGATAAACTCAGACAGCGCCCATATGGGTCCCATCGAGAGACCCAGACTGAGTGTG
AGTGGACCGTTGACACCTCCAAGCTGGTGTGTTGATGGGCTGAGGAAGAAGGTGACAGCAATGCAGCTCTATGAGT
GTCAGCTGATCGACAAAACAACCTTGGACAACTATTGAAGGGGAAGAAGTCAGTGGAAGAAGTTGCTTCTGAAA
TCCAGCCATTCTTTCGGGTGCAGGATCTATCGCTGGAGCATCTGCTTCTCCTAAGGAAAAATACTCTTTGGTAG
AGGCCAAGAGAAAGAAATTAATCAGCCAGAATCCACAGTCATGCTTCTGGAGGCCCAGGCAGCTACAGGTGGTA
TAATTGATCCCCATCGGAATGAGAAGCTGACTGTGACAGTGCCATAGCTCGGGACCTCATTGACTTCGATGACC
GTCAGCAGATATATGCAGCAGAAAAAGCTATCACTGGTTTTGATGATCCATTTTCAGGCAAGACAGTATCTGTTT
CAGAAGCCATCAAGAAAAATTTGATTGATAGAGAAACCGGAATGCGCCTGCTGGAAGCCCAGATTGCTTCAGGGG
GTGTAGTAGACCCTGTGAACAGTGTCTTTTTGCCAAAAGATGTCGCCCTTGGCCCGGGGGCTGATTGATAGAGATT
TGTATCGATCCCTGAATGATCCCCGAGATAGTCAGAAAAACTTTGTGGATCCAGTCACCAAAAAGAAGGTGAGTT
ACGTGCAGCTGAAGGAACGGTGCAGAATCGAACCACATACTGGTCTGCTCTTGCTTTTCACTACAGAAGAGAAGCA
TGTCTTCCAAGGAATCAGACAACCTGTGACCGTCACTGAGCTAGTAGATTCTGGTATATTGAGACCGTCCACTG
TCAATGAACTGGAATCTGGTCAGATTTCTTATGACGAGGTTGGTGAGAGAATTAAGGACTTCCTCCAGGGTTCAA
GCTGCATAGCAGGCATATACAATGAGACCACAAAACAGAAGCTTGGCATTTATGAGGCCATGAAAATTGGCTTAG
TCCGACCTGGTACTGCTCTGGAGTTGCTGGAAGCCCAAGCAGCTACTGGCTTTATAGTGGATCCTGTTAGCAACT

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FIGURE 1859C

TGAGGTTACCAGTGGAGGAAGCCTACAAGAGAGGTCTGGTGGGCATTGAGTTCAAAGAGAAGCTCCTGTCTGCAG
AACGAGCTGTCACTGGGTATAATGATCCTGAAACAGGAAACATCATCTCTTTGTTCCAAGCCATGAATAAGGAAC
TCATCGAAAAGGGCCACGGTATTTCGCTTATTAGAAGCACAGATCGCAACCGGGGGGATCATTGACCCAAAGGAGA
GCCATCGTTTTACCAGTTGACATAGCATATAAGAGGGGCTATTTCAATGAGGAACTCAGTGAGATTCTCTCAGATC
CAAGTGATGATACCAAAGGATTTTTTGACCCCAACACTGAAGAAAATCTTACCTATCTGCAACTAAAAGAAAGAT
GCATTAAGGATGAGGAAACAGGGCTCTGTCTTCTGCCTCTGAAAGAAAAGAAGAAACAGGTGCAGACATCACAAA
AGAATACCCTCAGGAAGCGTAGAGTGGTCATAGTTGACCCAGAAACCAATAAAGAAATGTCTGTTCAAGGAGGCCT
ACAAGAAGGGCCTAATTGATTATGAAACCTTCAAAGAAGTGTGTGAGCAGGAATGTGAATGGGAAGAAATAACCA
TCACGGGATCAGATGGCTCCACCAGGGTGGTCTCTGGTAGATAGAAAGACAGGCAGTCAGTATGATATTCAAGATG
CTATTGACAAGGGCCTTGTTGACAGGAAGTTCTTTGATCAGTACCGATCCGGCAGCCTCAGCCTCACTCAATTTG
CTGACATGATCTCCTTGAAAAATGGTGTGCGCACAGCAGCAGCATGGGCAGTGGTGTGAGCGATGATGTTTTTA
GCAGCTCCCGACATGAATCAGTAAGTAAGATTTCCACCATATCCAGCGTCAGGAATTTAACCATAAGGAGCAGCT
CTTTTTCAGACACCCTGGAAGAATCGAGCCCCATTGCAGCCATCTTTGACACAGAAAACCTGGAGAAAATCTCCA
TTACAGAAGGTATAGAGCGGGGCATCGTTGACAGCATCACGGGTGAGAGGCTTCTGGAGGCTCAGGCCTGCACAG
GTGGCATCATCCACCCAACCACGGGCCAGAAGCTGTCACTTCAGGACGCAGTCTCCAGGGTGTGATTGACCAAG
ACATGGCCACCAGGCTGAAGCCTGCTCAGAAAGCCTTCATAGGCTTCGAGGGTGTGAAGGGAAAGAAGAAGATGT
CAGCAGCAGAGGCAGTGAAAGAAAAATGGCTCCCGTATGAGGCTGGCCAGCGCTTCTGGAGTTCCAGTACCTCA
CGGGAGGTCTTGTTGACCCGGAAGTGCATGGGAGGATAAGCACCGAAGAAGCCATCCGGAAGGGGTTTCATAGATG
GCCGCGCCGCACAGAGGCTGCAAGACACCAGCAGCTATGCCAAAATCCTGACCTGCCCCAAAACCAAATTAATAA
TATCCTATAAGGATGCCATAAATCGCTCCATGGTAGAAGATATCACTGGGCTGCGCCTTCTGGAAGCCGCTCCG
TGTCGTCCAAGGGCTTACCCAGCCCTTACAACATGTCTTCGGCTCCGGGTCCCGCTCCGGCTCCCGCTCGGGAT
CTCGCTCCGGATCTCGCTCCGGGTCCCGCAGTGGGTCCCGGAGAGGAAGCTTTGACGCCACAGGGAATTCTTCCT
ACTCTTATTCCTACTCATTTAGCAGTAGTTCTATTGGGCACTAGTAGTCAGTTGGGAGTGGTTGCTATACCTTGA
CTTCATTTATATGAATTTCCACTTTATTAAATAATAGAAAAGAAAATCCCGGTGCTTGAGTAGAGTGATAGGAC
ATTCTATGCTTACAGAAAATATAGCCATGATTGAAATCAAATAGTAAAGGCTGTTCTGGCTTTTTATCTTCTTAG
CTCATCTTAAATAAGCAGTACACTTGGATGCAGTGCCTCTGAAGTGCTAATCAGTTGTAACAATAGCACAAATCG
AACTTAGGATTTGTTTCTTCTCTTCTGTGTTTCGATTTTTGATCAATTCTTTAATTTTGGAAGCCTATAATACAG
TTTTCTATTCTTGAGATAAAAAATTAAATGGATCACTGATATTTTAGTCATTCTGCTTCTCATCTAAATATTTCC
ATATTCTGTATTAGGAGAAAATTACCCTCCCAGCACAGCCCCCTCTCAAACCCCCAACCCAAAACCAAGCATT
TTGGAATGAGTCTCCTTTAGTTTTAGAGTGTGGATTGTATAACCCATATACTCTTCGATGTACTTGTTTGGTTTG
GTATTAATTTGACTGTGCATGACAGCGGCAATCTTTTCTTTGGTCAAAGTTTTCTGTTTATTTTGCTTGTCTATAT
TCGATGTACTTTAAGGTGTCTTTATGAAGTTTGCTATTCTGGCAATAAACTTTTAGACTTTT

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FIGURE 1860

GTCTATGTTCTTCGCGCCCTGGTGTGGACACTGCCAGCGGCTGCAGCCGACTTGGAATGACCTGGGAGACAAATAC
AACAGCATGGAAGATGCCAAAGTCTATGTGGCTAAAGTGGACTGCACGGCCCACTCCGACGTGTGCTCCGCCAG
GGGTGCGAGGATACCCACCTTAAAGCTTTTCAAGCCAGGCCAAGAAGCTGTGAAGTACCAGGGTCTCTCGGGAC
TTCAGACACTGGAAAACCTGGATGCTGCAGACACTGAACGAGGAGCCAGTGACACCAGAGCCGGAAGTGGAAACCG
CCCAGTGCCCCGAGCTCAAGCAAGGGCTGTATGAGCTCTCAGCAAGCAACTTTGAGCTGCACGTTGCACAAGGC
GACCACTTTATCAAGTTCTTCGCTCCGTGGTGTGGTCACTGCAAAGCCCTGGCTCCAACCTGGGAGCAGCTGGCT
CTGGGCTTGAACATTCGAAACTGTCAAGATTGGCAAGGTTGATTGTACACAGCACTATGAACTCTGCTCCGGA
AACCAGGTTCTGTGGCTATCCCACTCTTCTCTGGTTCCGAGATGGGAAAAAGGTGGATCAGTACAAGGGAAAGCGG
GATTGTGAGTCACTGAGGGAGTACGTGGAGTGCAGCTGCAGCGCACAGAGACTGGAGCGACGGAGACCGTCAAG
CCCTCAGAGGCCCCGGTGTGGCAGCTGAGCCCGAGGCTGACAAGGGCACTGTGTTGGCACTCACTGAAAATAAC
TTCGATGACACCATTGCAGAAGGAATAACCTTCATCAAGTTTTATGCTCCATGGTGTGGTCATTGTAAGACTCTG
GCTCCTACTTGGGAGGAACTCTCTAAAAGGAATTCCCTGGTCTGGCGGGGTCAAGATCGCCGAAGTAGACTGC
ACTGCTGAACGGAATATCTGCAGCAAGTATTCGGTACGAGGCTACCCACGTTATTGCTTTTCCGAGGAGGGAAG
AAAGTCAGTGAGCACAGTGGAGGCAGAGACCTTGACTCGTTACACCGCTTTGTCCTGAGCCAAGCGAAAGACGAA
CTTTAGGAACACAGTTGGAGGTCACCTCTCCTGCCAGCTCCCGCACCTTGCCTTTAGGAGTTTCACTCCACAGA
GGCCACTGGGTTCCCACTGGTGGCTGTTTCAAGAGCAGAACATACTAAGCGTGAGGTATCTTCTTTGTGTGTGTG
TTTTCCAAGCCAACACACTCTACAGATTCTTTATTAAGTTAAGTTTCTCTAAGTAAATGTGTAACCTCATGGTCAC
TGTGTAAACATTTTCACTGGCGATATATCCCTTTGACCTTCTCTTGATGAAATTTACATGGTTTCTTTGAGAC
TAAAATAGCGTTGAGGGAAATGAAATTGCTGGACTATTTGTGGCTCCTGAGTTGAGTGATTTTGGTGAAAGAAAG
CACATCCAAAGCATAGTTTACCTGCCACGAGTCTGGAAGGTGGCTTGTGGCAGTATTGACGTTTCTCTGAT
CTTAAGGTACAGTTGACTCAATACTGTGTTGGTCCGTAGCATGGAGCAGATTGAAATGAAAAACCCACACCTC
TGGAAGATACCTTTCACGGCCGCTGCTGGAGCTTCTGTTGCTGTGAATACTTCTCTCAGTGTGAGAGGTTAGCCGT
GATGAAAGCAGCGTTACTTCTGACCGTGCCTGAGTAAGAGAATGCTGATGCCATAACTTTATGTGTCGATACTTG
TCAAATCAGTTACTGTTACAGGGATCCTTCTGTTTCTCACGGGGTGAACATGTCTTTAGTTCTCTCATGTTAACA
CGAAGCCCAGAGCCACATGAACTGTTGGATGTCTTCTTAGAAAGGGTAGGCATGGAAAATTCCACGAGGCTCA
TTCTCAGTATCTCATTAACTCATTGAAAGATCCAGTTGTATTTGTACCTGGGGTGACAAGACCAGACAGGCTT
TCCCAGGCCTGGGTATCCAGGGAGGCTCTGCAGCCCTGCTGAAGGGCCCTAACTAGAGTTCTAGAGTTTCTGATT
CTGTTTCTCAGTAGTCCTTTTAGAGGCTTGCTATACTTGGTCTGCTTCAAGGAGGTCGACCTTCTAATGTATGAA
GAATGGGATGCATTTGATCTCAAGACCAAAGACAGATGTCAGTGGGCTGCTCTGGCCCTGGTGTGCACGGCTGTG
GCAGCTGTTGATGCCAGTGTCTCTAACTCATGCTGTCTTGTGATTAAACACCTCTATCTCCCTTGGGAATAAG
CACATACAGGCTTAAGCTCTAAGATAGATAGGTGTTTGTCTTTTACCATCGAGCTACTTCCCATATAAACCCT
TTGCATCCAACACTCTTACCCACCTCCCATACGCAAGGGGATGTGGATACTTGGCCCAAAGTAACTGGTGGTAG
GAATCTTAGAACAAGACCACTTATACTGTCTGTCTGAGGCAGAAGATAACAGCAGCATCTCGACCAGCCTCTGC
CTTAAAGGAAATCTTTATTAATCACGTATGGTTCACAGATAATTCTTTTTTTTAAAAAAACCCAACTCCTAGAGA
AGCACAACTGTCAAGAGTCTTGTACACACAACCTTCAGCTTTGCATCACGAGTCTTGTATTCCAAGAAAATCAAAG
TGGTACAATTTGTTTGTTTTACACTATGATACTTTCTAAATAAACTCTTTTTTTTT

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FIGURE 1861

ATGGACAGGACTGTCATTTCAGAAATACCACACTGTGAATGGCCACAGCTGTGAAGTTAGGAAAGCCCTGTCAAAG
CAAGAGATGGTTAGTGCTTCATCCAGCCAAAGAGGTCGAAGTGGTTCCTGGAAACTTTGCTGGTGGTCTTAGAAGT
GGTTTCAGTGGGAATAACAACTTTGGTCGTGGAGGAACTTCCGTGGTCGTGGGGCCTTTGGTGGCAGCCGTGGT
GGTGGTGGATATGATGGCAGTGGGGATGGCTATAATGGATATGGTAACGATTGA

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FIGURE 1862

ATGAAGGCCAACTACAGCGCAGAGGAGCGCTTTCTCCTGCTGGGTTTCTCCGACTGGCCTTCCCTGCAGCCGGTC
CTCTTCGCCCTTGTCCTCCTGTGCTACCTCCTGACCTTGACGGGCAACTCGGCGCTGGTGCTGCTGGCGGTGCGC
GACCCGCGCCTGCACACGCCCATGTACTACTTCTCTGCCACCTGGCCTTGGTAGACGCGGGCTTCACTACTAGC
GTGGTGCCGCCGCTGCTGGCCAACCTGCGCGGACCAGCGCTCTGGCTGCCGCGCAGCCACTGCACGGCCCAGCTG
TGCGCATCGCTGGCTCTGGGTTTCGGCCGAATGCGTCCTCCTGGCGGTGATGGCTCTGGACCGCGCGGCCGAGTG
TGCCGCCCGCTGCGCTATGCGGGGCTCGTCTCCCCGCGCCTATGTCGCACGCTGGCCAGCGCCTCCTGGCTAAGC
GGCCTCACCAACTCGGTTGCGCAAACCGCGCTCCTGGCTGAGCGGCCGCTGTGCGCGCCCCGCTGCTGGACCAC
TTCATCTGTGAGCTGCCGGCGTTGCTCAAGCTGGCCTGCGGAGGCGACGGAGACACTACCGAGAACCAGATGTTT
GCCGCCCGCGTGGTCATCCTGCTGCTGCCGTTTGCCGTCATCCTGGCCTCCTACGGTGCCGTGGCCCGAGCTGTC
TGTTGCATGCGGTTTACGCGAGGCCGAGGAGGGCGGTGGGCACGTGTGGGTCCCACCTGACAGCCGTCTGCCTG
TTCTACGGCTCGGCCATCTACACCTACCTGCAGCCGCGCAGCGCTACAACCAGGCACGGGGCAAGTTCGTATCG
CTCTTCTACACCGTGGTCACACCTGCTCTCAACCCGCTCATCTACACCCTCAGGAATAAGAAAGTGAAGGGGGCA
GCGAGGAGGCTGCTGCGGAGTCTGGGGAGAGGCCAGGCTGGGCAGTGA

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FIGURE 1863

ACTTCTGGGGCAGCCGTGAGCAGCGGGCACACGGGCAGCCACGAAAGCAGCAGCGAGGGTGGTGCAAACACCTCA
TAACTACACCGAATCCAGTAGCGCCTGGCGCCCCCGGCGCGCAAGGCCGCTCTACTCCGCTCATCTTTGTCCC
AAGTCCTTTCACAGCCTGCCTTCCTCAAACGGCCCCGATGCGCCCCGTCTTTGCCGGAGTAAGCAGACCGCCAGC
AGCCGGCCCCGAGGTCAGTCGACCCTCTCTGGATGCAGGTGCGCCGGGAAAACCCGGAGCGGAGCATCCCTCGGGC
CGGGAAACGCCCTCGGCGCGCACCCACTGGCGCGCATGCTCAGTCCGCGCGCGGCTGCGAGTAGGAAGCTCCGC
GCGGCGGCGGGGGCGGCGACGGCGACTGGCGGGTGGGAGTGGAGGCCACGGCTGGCGGGCGGGGGTACAGGGACG
GGGCAGGGGCTCCCCGCTCCAGGTTCTTGAAGCACTTCCGACCGCGAAGCCCGGCGCGAGAAGCGAGCTAACCCA
AGAGCCAACAACGAGCGCGGAGAGGGCAGCGGACTGAGCGGAGCCGCCCGGCCAGAGCGGGCTCGGAGCCCGGGTC
TCCGCCGCTCGGGACCCGGCTAGGCGGCGGGCGGGGGCGGCGATGTTCCACTGCATCCCCCTGTGGCGGTGCAACC
GTCATGTGGAGAGCATCGACAAGCGCCACTGCTCGCTGGTCTACGTCCCCGAGGAGATCTACCGCTATGCCCGGA
GCCTGGAGGAGCTGCTGCTGGACGCCAACCAGCTCCGCGAGCTGCCCGAGCAATTTTCCAGCTAGTCAAATTAC
GAAAGCTTGGACTTAGTGATAATGAAATTCAGCGGCTCCCTCCAGAAATAGCAAACCTTCATGCAGCTGGTGGAA
TAGATGTGTCTCGAAATGAGATTCTTGAATTCAGAAAGCATTTTCTGTAAAGCACTGCAGGTAGCTGACT
TCAGCGGAAACCCACTGACTAGGTTGCCAGAAAGCTTTCCTGAATTACAGAATTTAACAATGTCTTTCTGTAAATG
ACATCTCACTACAGTCTCTACCTGAAAATATTGGCAATCTTTATAACCTGGCTTCACTGGAACCTGAGAGAGAATC
TTCTTACATATCTTCTGACTCTCTTACCCAGCTGCGAAGACTAGAAGAACTTGATTTAGGAAACAATGAAATAT
ATAATTTGAATCAATTGGAGCCCTCTTACATCTTAAAAGATCTCTGGTTGGATGGAAATCAACTGTCAGAATTACC
TCAGGAAATAGGAAATCTGAAGAACCTGCTGTGTTTAGATGTCTCTGAAAACAGGTTGGAAAGACTTCCTGAAGA
AATCAGTGGCCTGACTTCATTAAACGGATTTAGTCATTTCCAGAACTTATTAGAAACGATTCCGGATGGCATTGG
AAAATAAAGAACTGTCAATCTTGAAGGTGGATCAGAATAGACTCACACAGTTGCCTGAAGCAGTTGGGGGAATG
TGAAAGTCTCACTGAGTTAGTTCTTACAGAAAATCAGCTCCTGACCCTGCCTAAAAGCATTGGAAAACATAAGAA
GTTGAGCAACTTGAATGCAGACAGAAATAAATTAGTGTCTTACCAAAGAGGTATGTGCTTTTAGAGAAATCAC
ATGATAATAATTATGAAGAAATAATAATAACATAAGGGATCAAAAATGTCAAATGCTTTGAAAAGACGCATGT
GTTGTTTTTTTAAAGGTGTGAACTCTAAATCTGTGAGTATAGAGCCAACTGGAGGAATTATGTCAAAGAATGATCA
TCAGTAACATTAAGGAGAGTTGGAAAAGGTGAATTTATAGGATTTTAAATGGGAGAAAGAAAGAGATTGACATTT
TGGGTTTGATATACAGAGAATGGTGACACCATTGGCAGAAATTGATAATTTGGGAGTTTGACAGAGGAAGTGGAT
GCCTTTGGGTTTGATTTTTGAATTTAATGTGAAATTAAGCTCCATCCATAAGCAATTGGAATTATAAAAATTGA
TCTTGATGCAACCATATTTCTGGGCAGAGATTTACATTGGGCCATGCTCATGTCTTGATGAGGTTGAACAACT
GTTACAAAGGCATACACATAGAGGAAGGTGAATGGGAAGCTAAAGCCAGCTTCCTAGGACTTTTTTTTTGGTTA
GTAGTCTAAGCACGAGAAAAATGAGACATCACCATCTGTTGTGGAGAGTAGCTGTATGGACTGAGAGGCATTTAA
TTCTGGCAAGGGAGGTGGAAATGCTGACAAATGAGGAGGAAGCTTATAGTGGGTCAAACAAGGAGGTGTCTAGTGT
GTTGTTTTTAAAGAAGGCTTACAATTAGCCAGGCGTGGTGGCGGGCGCCTGTAGTCCCAGCTACTCGGGAGGCTG
AGGCAAGAGAATTGCCTGAACCCGGGAGGCTAAGGTTGCAGTGAGCCGAGACCACGCCACTGCACTCCAGCCCGG
GTGACAGAGCGAGACTCTATCTCAAAAAAAAAAAAAAAAAAAAAAAAAAATG

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FIGURE 1864

MFHCIPLWRCNRHVESIDKRHCSLVYVP EEIYRYARSLEELLDDANQLRELPEQFFQLVKLRKLGLSDNEIQRLP
PEIANFMQLVELDVS RNEIPEIPESISFCKALQVADFSGNPLTRLPE SFPELQNLTCLSVN DISLQSLPENIGNL
YNLASLELRENLLTYLPDSL TQLRRLEELDLGNNEIYNLNQLEPSYI

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FIGURE 1865A

CGGTGCTGGAGAAGTTTGCCTGCGGTTTCGTGAGCGCAGGGTGCGGGCCCCGCCGGCCGCTGCGCGCCCGCTGCC
ATGGCTTTCCGCAGGAGGACGAAAAGTTACCCGCTCTTCAGCCAGGAGTTTCGTATCCACAACCATGCGGACATC
GGCTTCTGCCTGGTGCTCTGCGTCTCATCGGGCTTATGTTTCAGGTCACAGCCAAGACTGCCTTTCTATTTATT
TTACCTCAGTATAACATTAGCGTGCTACAGCAGACAGTGAGACCGTGCACTACCACTATGGCCCTAAGGACCTG
GTCACAATCTTGTTCTACATCTTCATCACCATCATCTTGCACTGCTGTGGTTTCAGGAGTACATTTTAGATAAAATC
AGCAAACGGCTTCATCTCTCCAAAGTCAAACACAGCAAGTTCAATGAATCTGGACAGCTGGTCGTCTTTCATTTT
ACCTCGGTGATTTGGTGCTTCTACGTGGTGGTGACGGAAGGATACTTAACAAACCCAAGAAGCCTCTGGGAAGAC
TACCCGCATGTGCACCTCCCTTCCAGGTGAAGTTTTTCTACCTATGCCAGCTGGCCTACTGGCTGCACGCACTT
CCTGAGCTATACTTCCAGAAGGTACGGAAGGAGGAAATTCCCCGCCAGCTCCAGTATATTTGCTGTACCTGGTG
CATATAGCTGGAGCATACCTCTTAAACCTGAGCCGCTGGGCTGATCTTGCTGCTGCTGCAGTACTCAACTGAG
TTCCTCTTCCACACGGCTAGACTCTTCTACTTTGCAGATGAAAACAACGAGAACTGTTTCAGTGCCCTGGGCTGCT
GTTTTTGGGGTTACCCGCTCTTCATCCTCACCTTGCCGTGCTGGCCATTGGCTTTGGACTGGCTCGCATGGAA
AACCAGGCATTTGATCCCGAGAAAGGGAACCTCAACACTTTGTTTTGCAGGCTCTGCGTGTGCTGCTGGTGTGT
GCCGCCAGGCCTGGCTCATGTGGCGCTTCATCCACTCCAGCTGCGGCCTGGCGGAATACTGGAATGAGCAG
AGTGCAAAGCGGAGAGTCCAGCCACACCCAGACTACCAGCCAGGCTCATCAAGAGGGAATCTGGTTACCATGAA
AATGGAGTGGTGAAGGCAGAGAACGGAACCTCCCCACGACTAAGAACTCAAGTCTCCCTAAGGCCAAAGTGCT
AAGAACAGGAATCCTCTTGGTGGGGGCGAGCAGGGGGCAAGGAGCCCAGGCCCTCCCTGCCTCCTCCTTCT
GCCTGTGATGCTCCGTCTCAAACAGCCGAAACCTGTCTTGCAATGGGGGGAGGGGGCGTTTTGCTTTTCTTCTC
TTGGCTTCCTCTTATTCTTCCACAAACCATTTCTCAATAAAGCCAAAAATCTTCTCTTCTCCCCCTCAGGCCAC
CTCCTGTCTCACTCCTGTCTGTGCTGGCTTTTCTGGAACGCCAGGCGCCCATGGCTGGACCTTTCTGCTTGC
TCTGTCTCTTGCTTATGGCTGTGCTTTTCTTTTACTTCTATTTTACCTTATCTTGCAATTTTTCTGTCT
GATTTTTACAATGGGAGGGGAGCTAAGATTGCAGTCTGTCTTCCGTCCCCCAGGGCCTGCCGGTCAGAAGCCT
GGGGCTGGTAGGCCCTTGGTGGTCTCATGTGGATGGGCAAGAAGAGAGCGGCCATCTCGGATCATAATCTCCTT
GGTGCTGATTAAGTACGAGATATATGATTCCAGTTCTGCATGTACCATCTTGAGGCACAGCAGCCACTGCTCGT
TGTAATGCCAAGGCATTTGGCTTTGGGACGTGACAACTCAATCCAGAAGGATGGTGTGAAGTTCGGTTGGGTCCC
GTGACTCGAGCTCCTACCAGTGGCTGGCCGCGGATTGGAAGCCAGCCTGCTGTGCTCTGTGGGGGGGACACGT
CTTCCCACTGCTTAGAGCGAGAGCAGAGCAAACCTGCGCAGCAGGCACCTCCAGAAAGGTAATGGTGGCAGAACCC
ACAGTGGAGTCGACCTAGGCCTTTCTCCAGCAGTCCAGTGCCTATTGCTTTTTTCAGCCATTACAAAGCATTCAA
AACCACAAACCAACAGCAGTTTCATATACCTGCCTGAGATAGGCTGGTCTCCTCACCTCCAGAGCCAGCCAGCCCCGTC
AGGGGCCAAACTTACTACCTTGACTTCATCTCTAGCTGCAGAAACACTAAGTCTCAAGGGCTTCAGCCCCATGCT
GGTCCCTTGGTGTTCAGGGAGGGTCACTTGGACCGCTGTTTCATCTGGCCGCCCTTGTGAGTGTCTTTGGAATT
GTCGTTTTTTTGGACACAACCTACAGCATTTTAGACTGCATGAAACCATGACTGACTGAGAGTCACTCTCTGGGTAG
ATGATAGGCGCCTTTCTGCCCCCTTCCCTCACAGATTCTTTCCCTCCCTCCACCTGAAGAGAAGGCCTCCAAG
TCCTTTTGGTGCCTTGTGAGGACTTTTAGAAGGGGCGTTTCAGCTTTAAAAAGCCGGTCTTAATTACGGCCGGACG
CAGTAGCTTACGCTGTATCCAGCACTTTGGGAGGTCGAGGTGGGCAGATCACCTGAGGTTAGGAGTTCAAGA
CCAGCCTGGCCAACATGGTGAAACCCCATCTCTACTAAAAATACAAAAAATTAGGTGTAGTGGCAGGCACCTGTA
ATCCAGCTACTCGGGAGGCTGAGGCAGGAGAATCGCTTGAACCTAGAAGGCGGAGGTTGCAGTGAGCGGAGATT
GTACCATGGCACTCCAGCCTGGACAACAAGAGCGAAATCTGTCTAAAAAACAAGTCCCAATTAAGAACCTC
CGAACTCTGTTTTGAGGCAAAGGGGAGTAGTTCTTGGTAGGTGCAGGAATAGTAGTGTCAATTTGGAATACTGGTC
ATCTTTCTGACATCACAGTAGAAACCAACCTTGGATTTAGATTCAAAAGGGGGGAAATGGGTCTTTTCATCAAG
GCAACTCCCTTCTCCAAGTCACTTACATCATAGATAAATTTAGCTTCCAGTAAGTACGGGATTTGTTTCCTA
ACGCCATTGGAGGCCTTCATCCCTCTCTACGATAAGGTTGCAGAAATGGGAAGAGCTACCCGTGGTTGCTTTTGA
TTACCTTAGGAAGTGAGACAGTGTTTTTGAAAATATGATTTCCCCATTTCTCCCTCTCCTTCCCTGACACTT
CTCTGGGCTGCACAGCAGAAACGTTGGTAAAAGGGCAGTTTGGTTTCAACACAGCAGACCTGATATGGGATCCCT
TAGCCACTTTAGTCAACACAGCCCTGACAGAGTCTATAATTGAGTTCAGGCCCCCACCTTGCTAATAACTGCAA
ATCGCATGTTTCAGCCAGCAGCCTCCTAAGCCCACCTTCTCCCCATTAGAGAACACCCATCCTAGGTGCTCTCC
AGGCTGTGTATTGGCAGGGCTTCACATGCAGGAGGCCTCTCTCAGGTGAGTCCAGGTTAAACTGTTGAGTTGTG
GCTTCAACAGATATGTATGGCATGCTGGGATGTGCCAGGTGCCTGCGTTGTGCCAGTTGCTGGAGAGGTAGTGTG

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FIGURE 1865B

AGCAGAGCAGCTGAAATCTTGCCATCAAGCAACCCTCATTCTCATGCCTGTAGGTTTCCATTGCTCTGTCCCAGG
ACACTTGCGTGCCAGAGACGCCACAACCTTCATGTCCCTGTCTCTTGCAAGCTCCCCGTGCTGCCAGTACTTCATG
CCTTGATGTGGTCCCACCAGCCCAGTGGCCGGGGTCAGCTTAGGCTCTGCTTCCCAGTGGACGGGTGTGCTAAG
GGTTTATTTTATGTAAAAAACAACCAAAAAAACCTGAGACCATGAGTGGGGCTGGCATCTTGCCA
GCCTGGGCTTCAGGGATGTTTGGGGGGGTGGTTAGAGGGTAGTTGTAGGGTACTTTGTACCCCCCTCCCCCTG
CCACCCTCCCTGGCACGTTTATTTACAGCAGAGCCAAGTCTGTGGCAGGTTGACACAGACTGTGTTGCCAGAGC
TGAAATAATTCCACTTCATCCTATGAGCGTGTGGGCTAGCTTGTCTAATTTTGCCACTTTGGCTGTTTTCTT
CAGTTTTATGCATTCTCTCTGCCCCAAAGTGCCAAGCCATTTGTGAAGGCTCTGCCAGACACCTCCAAGCTTGA
GAGCTCAGCACCATGCACCAAGAGCAGGAGAAAAGACGTAAACCTACCCAGCAACTGTGGCCTCTCGACAGCCC
TGGCTAACTAACTTACATTTGTGGGGAAGCCAACAGACACAGCAGGAGGAGAGGGAGGTGGCGCTGGTGGACAA
GGATCTGTGCTACCCGCTCCCCCTCTTGAGGTGCAGTGTATGATGGGAGTTATTTTACCATCCGGGCGCTGATA
GCTGCACTATTAATAAATTGCATGTGTTCCTTTTGAAGGTAGGGGATGGTTCTGGGTGAGAGGGGAGCAGGCTGA
GCCGGCGGGGGATCTGCTGTCTCCCTTTTGAGTCAGTTCTAATCCCATGTGTGTCTGGGCCACCAGACCGAAAT
GGTTGCTGAGAACTTGTCTGTTTCATGTCCCAAGGCATAACTTCCCAACATTTAAGAAACCCCAATAGACACCTC
TGCCCTGGCCACGTTACAGATCCTTCTCTTGACCGGAAACCCTGGGACCCTAAGAACCCCTGAAGCTTGGGGTG
GGTGTGTGCTTCTGGGGTCTCTTTGGGACCTCCTTTGTGCTAGTACCCCTTCTTTTTTCTAAGCAGCTAATAAGAG
GTTGGGTGAAAGAGTGCATCTCCTCCAGGATTCCACAACAAAATTCTTATCTTCCATGGATGCTTTAATTGGAA
GTGGGTTGCCGACCCCCCTGTGCTAGAAAAGGCCCTTCGCTTGGGTTTCTTTGTATGCTTCAGCCTTCCTAGTT
GGTTTTTCTAGGCCTGGTGTGAGAGGTAGGGAAGTCTGCACATAACTAATTCTTTTGTCTAAGGGCCTATGGCAC
AAGTGCACAACTTCAATTCTTGATGTTCTAAGCTCTCTCCTCTAACAGAGGGAGTGCTGAAAGCTTTTGAGTCA
AGACAATGGAGTGCTCTTCTCCCTCACTCTGCCTTCCGAGCTTATGGTTCCCTTTTCTCAGGAGAGGATTTTCAG
GATTATTGGAGGATTAGGTCAATTGTCAGATGACTGGAAAACCTAAATAGGATCTCTCTCCAGCTCAAGGTTGTCC
CAGTGAGGAAGACTTTACCAACTTCTCACTCTACCCCACTACTCACATGAGTGTAGCTCCACCTTGCAAAGGCT
GAAGACCAGTTCTCCCCAGTGAAAGCTGCCTCATTCTTTTATGGAGTTCCCTGGAGTGGCAGAGCTATAAAGACG
AGCATTGGGATTTGCAGTCTCCATGTAGCCTTTCGTGCTTGGCAACCCCTGTAGACTTTTGTCCCAAGCAGATT
GCGTGCGTGCGCCTGTGTGTGAGAATAAGTGCCTTACTTTGTGTGTGGTTTTCAACTTGTACTCCGTGGCCAGC
CCCCAGTTGCCAGGGCTCGACGGCAGCCAAGGACACCATACTCAGTATAGTTATATATAAAAGGGACACGGATT
GTGACAGTTTTACCCCCATTTGTTTTCTAACCCCGCTGCCAGGATTAGGGTCTGTGGTGTGTTCTGTTTTGTTTT
GGTTTTCTCCCTTGTGTGCTAGTTCTCTTCTGCCCAGCTGGGTGGCTGTGGAAGTCTGTGAGGTGGCCCAACCACAA
GCATACCTATTAAGAGAAGCCCAGAGCTTCCAGCCCCCACTTCGAAAACCTCTCCTCTGGCCCCACATAGCAAAC
CCTTCTCCGTTATTTTTCCCCACCCCCAGATTTTTTTTTAAAGGCCCACTTGCCGTAACCTCTTTTGGTCTATTTT
GCTTCCCATTCAGCCCCAAAGTTTATATGATAAAGGTGTTTACTTTTACTTCCCAGTCTCCAAGTGCTAACACATA
AACACATACATGTCTGACTGTTGCAGAACTGTTTCGAGCTCCTAATTCAGTGTACCTTGTTTTAGTCGCAGCAAC
CCTCTCCCCTACCCCTTGCCCGCCACGTTTTTCTCACTCTTCCGGGTGTGCAATAACTCTCCCAGCCAGTGGT
CCTTTCCACAGCCTTTCTGTCCCTTAAACACCTGCAACTGGGGGAGAAATGGGACCCATGGGAGGGGGAGTCGT
CATCCCTTACACAAGAAATAGCCACTTTCCTTTTGTGTGCTTCTGTGATCCTGGGTGGGTCTGTGGCACTC
TTTTAGAACATGTAGCATCATCTTAGAGGTCTATTTTTAAAAAATGTGTTGAAGAGGAAAAAACCTTCTCACGA
TGGGGCTTAAGTCATTGTCCAGGAATAAGATTGGCGTGGTGGCCATGACATCACCGTCACTCTGCCTAAAAGCAC
TCTAGAGCTACTTGTTACGTGGAGAGGAAGGATATTTTGCGAAGCAACAGCCGAGGTGGAGAGCCCTGTTTAC
CTGATAGGGTCTAGCTGTGACAGTAAATATAATACCGCTGTTTCTTGGGTACAGATTTGAGTGTTCATGTGATG
AGACTGTAAACCTCATTTTTTCCGTTCTCTGTTTTAAAAAACATCTGAAGGATGAACTAAGGCTGCTGGTGCCCT
GAGCAACTGATAATGCAAATGTGGACAAAGTGTCTGTTTTCTACTCTAGCCTGTTTATATGGACCAAATTTCAAC
AAGGAACTCAAGGAAAATTTGTACCTGCCGTATTTATGCTTTTATGTAAAAAAGGGTTGGGGGGAGGGGTGTCTT
TTTGCTTTTGGTGAACTTTTTTTCAAAATCATTTTTTCCACTGTTTCTGTCTGGTTTTTAAACAAATTACAGTTTT
GTATGGATTTTTTAAATGTACATTTTGGAAACAATGATCAAATATTTTCTGAAATAACAATAAAGGCAGAAAAT
T

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FIGURE 1866

CGGCACGAGGCGACTTTGGTGGAGGTAGTTCTTTGGCAGCGGGCATGGCGGGTACCGTGGTGCTGGACGATGTGG
AGCTGCGGGAGGCTCAGAGAGATTACCTGGACTTCTTGGACGACGAGGAAGACCAGGGAATTTATCAGAGCAAAG
TTGCGGAGCTGATCAGTGACAACCAATACCGGCTGATTGTCAATGTGAATGACCTGCGCAGGAAAAACGAGAAGA
GGGCTAACCGGCTTCTGAACAATGCCTTTGAGGAGCTGGTTGCCTTCCAGCGGGCCTTAAAGGATTTTGTGGCCT
CCATTGATGCTACCTATGCCAAGCAGTATGAGGAGTTCTACGTAGGACTGGAAGGCAGCTTTGGCTCCAAGCACG
TCTCCCCGCGGACTCTTACCTCCTGCTTCCCTCAGCTGTGTGGTCTGTGTGGAGGGCATTGTCACTAAATGTTCTC
TAGTTCTGTCCTCAAAGTCGTCCGCACTGTCCACTACTGTCTGCTACTAAGAAGACCATAGAGCGACGTTATTCTG
ATCTCACCACCCTGGTGGCCTTTCCCTCCAGCTCTGTCTATCCTACCAAGGATGAGGAGAACAATCCCCTTGAGA
CAGAATATGGCCTTTCTGTCTACAAGGATCACCAGACCATCACCATCCAGGAGATGCCGGAGAAGGCCCCAGCCG
GCCAGCTCCCCCGCTCTGTGGACGTCATTCTGGATGATGACTTGGTGGATAAAGCGAAGCCTGGTGACCGGGTTC
AGGTGGTGGGAACCTACCGTTGCCTTCCCTGGAAAGAAGGGAGGCTACACCTCTGGGACCTTCAGGACTGTCTTGA
TTGCCTGTAATGTTAAGCAGATGAGCAAGGATGCTCAGCCCTCTTTCTCTGCTGAGGATATAGCCAAGATCAAGA
AGTTCAGTAAAACCGATCCAAGGATATCTTTGACCAGCTGGCCAAGTCATTGGCCCCAAGTATCCATGGGCATG
ACTATGTCAAGAAAGCAATCCTCTGCTTGGCTCTTGGGAGGGGTGGAACGAGACCTAGAAAATGGCAGCCACATCC
GTGGGGACATCAATATTCTTCTAATAGGAGACCCATCCGTTGCCAAGTCTCAGCTTCTGCGGTATGTGCTTTGCA
CTGCACCCCGAGCTATCCCCACCACTGGCCGGGGCTCCTCTGGAGTGGGTCTGACGGCTGCTGTCAACACAGACC
AGGAAACAGGAGAGCGCCGTCTGGAAGCAGGGGCCATGGTCTGGCTGACCGAGGCGTGGTTTGCATTGATGAAT
TTGACAAAATGTCTGACATGGATCGCACAGCCATCCATGAAGTATGGAGCAGGGTTCGAGTGACCATTGCCAAGG
CTGGCATCCATGCTCGGCTGAATGCCCCGTGCACTGTTTGGCAGCTGCCAACCTGTCTACGGCAGGTATGACC
AGTATAAGACTCCAATGGAGAACATTGGGCTACAGGACTCACTGCTGTACGATTTGACTTGCTCTTCATCATGC
TGGATCAGATGGATCCTGAGCAGGATCGGGAGATCTCAGACCATGTCCTTCGGATGCACCGTTACAGAGCACCTG
GGGAGCAGGATGGCGATGCTATGCCCTTGGGTAGTGTGTGGATATCCTGGCCACAGATGATCCCAACTTTAGCC
AGGAAGATCAGCAGGACACCCAGATTTATGAGAAGCATGACAACCTTCTACATGGGACCAAGAAGAAAAAGGAGA
AGATGGTGAGTGCAGCATTTCATGAAGAAGTACATCCATGTGGCCAAAATCATCAAGCCTGTCTGACACAGGAGT
CGGCCACCTACATTGCAGAAGAGTATTCACGCCTGCGCAGCCAGGATAGCATGAGCTCAGACACCGCCAGGACAT
CTCCAGTTACAGCCCGAACACTGGAACTCTGATTGCACTGGCCACAGCCCATGCGAAGGCCCGCATGAGCAAGA
CTGTGGACCTGCAGGATGCAGAGGAAGCTGTGGAGTTGGTCCAGTATGCTTACTTTAAGAAGGTTCTGGAGAAGG
AGAAGAAACGTAAGAAGCGAAGTGAGGATGAATCAGAGACAGAAGATGAAGAGGAGAAAAGCCAAGAGGACCAGG
AGCAGAAGAGGAAGAGAAGGAAGACTCGCCAGCCAGATGCCAAAGATGGGGATTTCATACGACCCCTATGACTTCA
GTGACACAGAGGAGGAAATGCCTCAAGTACACACTCCAAAGACGGCAGACTCACAGGAGACCAAGGAATCCCAGA
AAGTGGAGTTGAGTGAATCCAGGTTGAAGGCATTCAAGGTGGCCCTCTTGGATGTGTTCCGGGAAGCTCATGCGC
AGTCAATCGGCATGAATCGCCTCACAGAATCCATCAACCGGGACAGCGAAGAGCCCTTCTCTTCAGTTGAGATCC
AGGCTGCTCTGAGCAAGATGCAGGATGACAATCAGGTCTGTTGCTGAGGGCATCATCTTCTCATCTGAGGAG
GCCTCTGCTCTGAACTTGGGTTGTGCCGAGAGAGTTTGTCTGTGTTTCCACCCCTCTCCCTGACCCAAGTCTTT
GCCTCTACTCCCTTAACAGTGTGTAATTCAACTGAAGGCGAGGAATGTTGGTGATGAAGCTGAGTTCAGGACTCG
GTGGACCCCTTGGGAATGGGTCTGAAAGCTGCCATGGGGTGAGGAAAGAGGAGACAGTGGGAGAGGACAATGAC
TATTGCATCTTCATTGCAAAAGCACTGGCTCATCCGCCCTACTTCCCATCCCACACAAACCCAATTGTAAATAAC
ATATGACTTCTGAGTACTTTTGGGGGCACAACCTGTTTTCTGTTTGGTGTGTTTTTTTGTGTTTTTTTCTCCAG
AGCACTTTGGTCTAGACTAGGCTTTGGGTGGTTCCAATTGGTGGAGAGAAGCTCTGAGGCACGTATGCAGGTCA
AGAAAGCTTTCTTTGCAGTAGCACCAGTTAAGGTGAATATGTATTGTATCACAAAACAAACCCAATATCCAGATG
AATATCCGAGATGTTGAATAAACTTAGCCATTTCTGTACAAAAAAGGGGGGCCCGGTAAAC

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FIGURE 1867

MAGTVVLDDVELREAQRDYLDFLDDEEDQGIYQSKVRELISDNQYRLIVNVNDLRRKNEKRANRLLNNAFEELVA
FQRALKDFVASIDATYAKQYEEFYVGLEGSFGSKHVSPRTLTSCLVVCVEGIVTKCSLVRPKVVRVSVHYCPA
TKKTIERRYSDLTTLVAFPSSSVYPTKDEENNPLETEYGLSVYKDHQTITIQEMPEKAPAGQLPRSVDVILDDDL
VDKAKPGDRVQVVGTYRCLPGKKGGYTSGTFRTVLIACNVQMSKDAQPSFSAEDIAKIKKFSKTRSKDIFDQLA
KSLAPSIHGHYVKKAILCLLLGGVERDLENGSHIRGDINILLIGDPSVAKSQLLRYVLCAPRAIPTTGRGSSG
VGLTAAVTTDQETGERRLEAGAMVLADRGVVCIDEFDKMSMDRTAIHEVMEQGRVTIAKAGIHARLNARCSVLA
AANPVYGRYDQYKTPMENIGLQDSLRSRFDLLFIMLDQMDPEQDREISDHVLRMHRYRAPGEQDGDAMPLGSAVD
ILATDDPNFSQEDQQDTQIYEKHDNLLHGTTKKKKEKMVSAAFMMKKYIHVAKIIPVLTQESATYIAEYSRLRSQ
DSMSSDTARTSPVTARTLETILRLATAHAKARMSKTVDLQDAEEAVELVQYAYFKKVLEKEKKRKRSEDESETE
DEEEKSQEDQEQRKRKRKTRQPDAGDGSYDPYDFSDEEEMPQVHTPKTADSQETKESQKVELSESRLKAFKVA
LLDVFREAHQAQSIGMNRLTESINRDSEEPFSSVEIQAALSKMQDDNQVMVSEGIIFLI

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FIGURE 1868

ATGACTGCATCCAACCTCGCAGGTGCGCCAGAACTACCACCAGGACTCAGAGGCCGCCATCAACCGCCAGATCAAC
CTGGAGCTCTACGCCTCCTACTTTAACCTCTCCATGTCTTACTACTTTGACCGTGATGATGCGGCTTTGAAGAAC
TTTGCCAAATACTTTCTTCACCAATCTCATGAGGAGAGGGAGCATGCTGAGAACTGATGAACTGCAGAACCAA
CAAGAGTGTGCATTACATTTGGAAAAAATGTGAATCAGTCACTACTGGAAGTGCACAACTGGCCACTGACAAA
AATGACCCCCATTTGTGTGACTTCATTGAGACACATTACCTGAATGAGCAGAATTGGGTGAACGTGACCAACTTG
CACAAGATGGGAGCACCCGAATCTGGCTTGGCAGAATATCTCTTTGACAAGCACACCCTGGGAGAAAGAGGGAGC
ACTGGAATGTTTAATTCGGACAATGCCAATACAAGTTTACAGAGAAGAGAGAAGTTTCCATTGGGTTTTGAAGGT
TCTGCTGATTTTCAATGGGCAGAGGTGGAGGAACAGTCTGAGCAGAGAGAACATCATAAACAAAGGAGTGAATGT
GAGAAAGGCTTCAGGTCCCATCAGAGTACTGGCTTCACTTTGACTGTAGAAGATTTAGTTGAAGCAGTATTCAA
AGTGTAGAAGTTGTCAAGCTACCTATCCAGTCTCTTGCTTCTGAAACAGTGGTTACCTGCTCTGGAAAACCTT
CTCTCTCCATCCTCCAAAGCTCCTGGGGTACAGCTTTATCAGCGCACCTATCACACTGATTCTGGTCTCCAAAA
CTCTTCTTGCTGAAAACAGCATACAAAATACTTTCCCTCTTCAAAGCCCAATACAACACTGGAAAAGCAATGGAG
AAGAAAGTACTCAGTATCTTTTCCCCACTAAAAGTTGTACTGCAATGCTTGAACACAAGTGGAGGAGCCCTAGGT
TTATCAAAAGTATCTGCCATTTCTAAAAGAATGTGTTTCCAAGGCATCCAGAAAGAGCTCTTTCCAAGTGCACCA
AATTCCATTTGCTTTCCACACCCTGTCCCGACAAGGGGTGCTGCAGAAGCACAAAGCCAGCCAGATGCATTGA

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FIGURE 1869

MTASNSQVRQNYHQDSEAAINRQINLELYASYFNLSMSYYFDRDDAALKNFAKYFLHQSHEEREHAEKLMKLQNQ
QECALHLEKNVNQSLLELHKLATDKNDPHLCDFIETHYLNEQNWVNVTNLHKMGAPESGLAEYLFDKHTLGERGS
TGMFNSDNANTSLQRRENFPPLGFEGSADFQWAEVEEQSEQREHHKQRSECEKGFRSHQSTGFTLTVEDLVEAVFK
SVELVKLPIQSSCLLKQWLPALENLLSPSSKAPGVQLYQRTYHTDSSLQKLFLLKTAYKILSLFKAQYNTGKAME
KKVLSIFSPLKVVLQCLNTTGGALGLSKVSAISKRMCFQGIQKELFPTAPNSICFPHFVPTRGAAEAQSQPDA

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FIGURE 1870

CGGACGCGTGGGCCGGTTCAGCCATGGGGACCTCTCCGAGCAGCAGCACCGCCCTCGCCTCCTGCAGCCGCATCG
CCCCCGAGCCACAGCCACGATGATCGCGGGCTCCCTTCTCCTGCTTGGATTCCCTTAGCACCACCACAGCTCAGC
CAGAACAGAAGGCCTCGAATCTCATTGGCACATACCGCCATGTTGACCGTGCCACCGGCCAGGTGCTAACCTGTG
ACAAGTGTCCAGCAGGAACCTATGTCTCTGAGCATTGTACCAACACAAGCCTGCGCGTCTGCAGCAGTTGCCCTG
TGGGGACCTTTACCAGGCATGAGAATGGCATAGAGAAATGCCATGACTGTAGTCAGCCATGCCCCATGGCCAATGA
TTGAGAAATTACCTTGTGCTGCCTTGACTGACCGAGAATGCACCTGCCCACCTGGCATGTTCCAGTCTAACGCTA
CCTGTGCCCCCATACGGTGTGTCTGTGGGTGGGGTGTGCGGAAGAAAGGGACAGAGACTGAGGATGTGCGGT
GTAAGCAGTGTGCTCGGGGTACCTTCTCAGATGTGCCTTCTAGTGTGATGAAATGCAAAGCATACACAGACTGTC
TGAGTCAGAACCTGGTGGTGATCAAGCCGGGGACCAAGGAGACAGACAACGTCTGTGGCACACTCCCGTCCCTTCT
CCAGCTCCACCTCACCTTCCCCTGGCACAGCCATCTTTCACGCCCTGAGCACATGGAAACCCATGAAGTCCCTT
CCTCCACTTATGTTCCCAAAGGCATGAACCAACAGAATCCAACCTCTTCTGCCTCTGTTAGACCAAAGGTACTGA
GTAGCATCCAGGAAGGGACAGTCCCTGACAACACAAGCTCAGCAAGGGGGAAGGAAGACGTGAACAAGACCCCTCC
CAAACCTTCAGGTAGTCAACCACCAGCAAGGCCCCACCACAGACACATCCTGAAGCTGCTGCCGTCCATGGAGG
CCACTGGGGGCGAGAAGTCCAGCACGCCCATCAAGGGCCCCAAGAGGGGACATCCTAGACAGAACCTACACAAGC
ATTTTGACATCAATGAGCATTGCCCCTGGATGATTGTGCTTTTCTGCTGCTGGTGCTTGTGGTGATTGTGGTGT
GCAGTATCCGGAAGGCTCGAGGACTCTGAAAAAGGGGGCCCCGGCAGGATCCAGTGCCATTGTGGAAGGAGCAG
GGCTGAAGAAATCCATGACTCCAACCCAGAACCGGGAGAAATGGATCTACTACTGCAATGGCCATGGTATCGATA
TCCTGAAGCTTGTAGCAGCCCCAGTGGGAAGCCAGTGGAAAGATATCTATCAGTTTCTTTGCAATGCCAGTGAGA
GGGAGGTTGCTGCTTTCTCCAATGGGTACACAGCCGACCACGAGCGGGCCTACGCAGCTCTGCAGCACTGGACCA
TCCGGGGCCCCGAGGCCAGCCTCGCCCAGCTAATTAGCGCCCTGCGCCAGCACCGGAGAAACGATGTTGTGGAGA
AGATTCTGTGGGCTGATGGAAGACACCACCCAGCTGGAACCTGACAACTAGCTCTCCCGATGAGCCCCAGCCCGC
TTAGCCCCGAGCCCCATCCCCAGCCCCAACCGGAACTTGAGAATTCCGCTCTCCTGACGGTGGAGCCTTCCCCAC
AGGACAAGAACAAGGGCTTCTTCGTGGATGAGTCGGAGCCCTTCTCCGCTGTGACTCTACATCCAGCGGCTCCT
CCGCGCTGAGCAGGAACGGTTCCTTTATTACCAAAGAAAAGAAGGACACAGTGTGCGGCAGGTACGCCTGGACC
CCTGTGACTTGCAGCCTATCTTTGATGACATGCTCCACTTTCTAAATCCTGAGGAGCTGCGGGTGATTGAAGAGA
TTCCCCAGGCTGAGGACAACTAGACCGGCTATTTCGAAATTATTGGAGTCAAGAGCCAGGAAGCCAGCCAGACCC
TCCTGGACTCTGTTTATAGCCATCTTCTGACCTGCTGTAGAACATAGGGATACTGCATTCTGGAAATTACTCAA
TTTAGTGGCAGGGTGGTTTTTTAATTTCTTCTGTTTCTGATTTTGTGTTTGGGGTGTGTGTGTGTGTTGTG
TGTGTGTGTGTGTGTGTGTGTGTGTGTGTTAACAGAGAATATGGCCAGTGCTTGAGTTCTTTCTCCTTCTCTCT
CTCTCTTTTTTTTTTAAATAACTCTTCTGGGAAGTTGGTTTATAAGCCTTTGCCAGGTGTAAGTGTGTGAAATA
CCCACCATAAAGTTTTTTAAGTTCCATATTTTCTCCATTTGCTTCTTATGTATTTTCAAGATTATTCTGTGC
ACTTTAAATTTACTTTAATTACCATAAATGCAGTGTGACTTTTCCCACACACTGGATTGTGAGGCTCTTAACCTC
TTAAAAGTATAATGGCATCTTGTGAATCCTATAAGCAGTCTTTATGTCTCTTAACATTCACACCTACTTTTTAAA
AACAAATATTATTACTATTTTTATTATTGTTTGTCTTTATAAATTTTCTTAAAGATTAAGAAAATTTAAGACCC
CATTGAGTTACTGTAATGCAATTCAACTTTGAGTTATCTTTTAAATATGTCTTGTATAGTTTCATATTCATGGCTG
AACTTGACCACACTATTGCTGATTGTATGGTTTTTCACTGGACACCGTGTAGAATGCTTGATTACTTGTACTCT
TCTTATGCTAATATGCTCTGGGCTGGAGAAATGAAATCCTCAAGCCATCAGGATTTGCTATTTAAGTGGCTTGAC
AACTGGGCCACCAAGAAGTGAACCTTACCTTTTAGGATTTGAGCTGTTCTGGAACACATTGCTGCACCTTTGGA
AAGTCAAAATCAAGTGCCAGTGGCGCCCTTTCCATAGAGAATTTGCCAGCTTTGCTTTAAAGATGTCTTGTTT
TTTATATACATAATCAATAGGTCCAATCTGCTCTCAAGGCCCTTGGTCTGGTGGGATTCCCTTCACCAATTACT
TTAATTAATAAATGGCTGCAACTGTAAGAACCCTTGTCTGATATATTTGCAACTATGCTCCATTTACAAATGTAC
CTTCTAATGCTCAGTTGCCAGGTTCCAATGCAAAGGTGGCGTGGACTCCCTTTGTGTGGGTGGGGTTTGTGGGTA
GTGGTGAAGGACCGATATCAGAAAAATGCCTTCAAGTGTACTAATTTATTAATAAACATTAGGTGTTTGTAAAA
AAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1871

MGTSPSSSTALASCSRIARRATATMIAGSLLLLGFLSTTTAQPEQKASNLIGTYRHVDRATGQVLTCDKCPAGTY
VSEHCTNTSLRVCSSCPVGTFTRHENGIEKCHDCSQPCPWPMIEKLPCAALTDRECTCPPGMFQSNATCAPHTVC
PVGWGVRRKKGTETEDVRCKQCARGTFSDVPSSVMKCKAYTDCLSQLVVIKPGTKETDNVCGTLPSPSSSTSPSP
GTAIFPRPEHMETHEVPSSTYVPKGMNSTESNSSASVRPKVLSSIQEGTVPDNTSSARGKEDVNKTLPLNLQVVNH
QQGPHHRHILKLLPSMEATGGEKSSTPIKGPKRGHPRQNLHKHFDINEHLPWMIVLELLLVLVVIVVCSIRKSSR
TLKKGPRQDP SAIVEKAGLKKSMTPTQNREKWIYYCNGHGIDILKLVAQVGSQWKDIYQFLCNASEREVAAFSN
GYTADHERAYAALQHW TIRGPEASLAQLISALRQHRRNDVVEKIRGLMEDTTQLETDKLALPMSPSPSPSPSPSP
PNAKLENSALLTVEPSPODKNKGFFVDESEPLLRC DSTSSGSSALS RNGSFITKEKKD TVLRQVRLDP CDLPQIF
DDMLHFLNPEELRVIEEIPQAEDKLDRLFEEIIGVKSQEASQTLLDSVYSHLPDLL

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FIGURE 1872

GCGCGGCACTTCCGCTGGCCGCTGGCTCGCTGGCCGCTCCTGGAGGCGGCGGGAGCGCAGGGGGCGCGCGGC
CCGGGGACTCGCATTCCTCCGTTCCCCCTCCACCCACGCGGCCTGGACCATGGACGCCAGATGGTGGGCAGTGG
TGGTGCTGGCTGCGTTCCCTCCCTAGGGGCAGGTGGGGAGACTCCCGAAGCCCCCTCCGGAGTCATGGACCCAGC
TATGGTTCTTCCGATTTGTGGTGAATGCTGCTGGCTATGCCAGCTTTATGGTACCTGGCTACCTCCTGGTGCAGT
ACTTCAGGCGGAAGAACTACCTGGAGACCGGTAGGGGCCTCTGCTTTCCCTGGTGAAAGCTTGTGTGTTTGGCA
ATGAGCCCAAGGCCTCTGATGAGGTTCCCTGGCGCCCCGAACAGAGGCGGCAGAGACCACCCCGATGTGGCAGG
CCCTGAAGCTGCTCTTCTGTGCCACAGGGCTCCAGGTGTCTTATCTGACTTGGGGTGTGCTGCAGGAAAGAGTGA
TGACCCGCAGCTATGGGGCCACAGCCACATCACCGGGTGAGCGCTTTACGGACTCGCAGTTCCTGGTGCTAATGA
ACCGAGTGCTGGCACTGATTGTGGCTGGCCTCTCCTGTGTTCTCTGCAAGCAGCCCCGGCATGGGGCACCCATGT
ACCGGTACTCCTTTGCCAGCCTGTCCAATGTGCTTAGCAGCTGGTGCCAATACGAAGCTCTTAAGTTCGTCAGCT
TCCCCACCCAGGTGCTGGCCAAGGCCTCTAAGGTGATCCCTGTGATGCTGATGGGAAAGCTTGTGTCTCGGCGCA
GCTACGAACACTGGGAGTACCTGACAGCCACCCTCATCTCCATTGGGGTCAGCATGTTTCTGCTATCCAGCGGAC
CAGAGCCCCGCAGCTCCCCAGCCACCACACTCTCAGGCCTCATCTTACTGGCAGGTTATATTGCTTTTGACAGCT
TCACCTCAAACCTGGCAGGATGCCCTGTTTGCCCTATAAGATGTGATCGGTGCAGATGATGTTTGGGGTCAATTTCT
TCTCCTGCCTCTTACAGTGGGCTCACTGCTAGAACAGGGGGCCCTACTGGAGGGAACCCGCTTCATGGGGCGAC
ACAGTGAGTTTGTGCCCCATGCCCTGCTACTCTCCATCTGCTCCGCATGTGGCCAGCTCTTCATCTTTTACACCA
TTGGGCAGTTTGGGGCTGCCGCTTTCACCATCATCATGACCCTCCGCCAGGCCTTTGCCATCCTTCTTTCTGCC
TTCTCTATGGCCACACTGTCACTGTGGTGGGAGGGCTGGGGGTGGCTGTGGTCTTTGCTGCCCTCCTGCTCAGAG
TCTACGCGCGGGGCCGCTCTAAAGCAACGGGGAAAGAAGGCTGTGCTGTTGAGTCTCCTGTGCAGAAGGTTTGAG
GGTGGAAGGGCCTGAGGGGTGAAGTGAAATAGGACCCTCCCACCATCCCCTTCTGCTGTAACCTCTGAGGGAGC
TGGCTGAAAGGGCAAAATGCAGGTGTTTTCTCAGTATCACAGACCAGCTCTGCAGCAGGGGATTGGGGAGCCCAG
GAGGCAGCCTTCCCTTTTGCCCTTAAGTCACCCATCTTCCAGTAAGCAGTTTATTCTGAGCCCCGGGGGTAGACAG
TCCTCAGTGAGGGGTTTTGGGGAGTTTGGGGTCAAGAGAGCATAGGTAGGTTCCAGTTACTCTTCCCACAAGTTC
CCTTAAGTCTTGCCCTAGCTGTGCTCTGCCACCTTCCAGACTCACTCCCCTCTGCAAATACCTGCATTTCTTACC
CTGGTGAGAAAAGCACAAGCGGTGTAGGCTCCAATGCTGCTTTCCCAGGAGGGTGAAGATGGTGCTGTGCTGAGG
AAAGGGGATGCAGAGCCCTGCCAGCACCACCACCTCCTATGCTCCTGGATCCCTAGGCTCTGTTCCATGAGCCT
GTTGCAGGTTTTGGTACTTTAGAAATGTAACTTTTTGCTCTTATAATTTTATTTTATTAAATTAAATTACTGCA

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FIGURE 1873

MDARWWAVVVLAAPPSLGAGGETPEAPPESWTQLWFFRFVVNAAGYASFMVPGYLLVQYFRRKNYLETGRGLCFP
LVKACVFGNEPKASDEVPLAPRTEAAETTPMWQALKLLFCATGLQVSYLTWGVLQERVMTRSYGATATSPGERFT
DSQFLVLMNRVLALIVAGLSCVLCKQPRHGAPMYRYSFASLSNVLSSWCQYEALKEVSFPTQVLAKASKVIPVML
MGKLVSRRSYEHWEYLTATLISIGVSMFLLSSGPEPRSSPATTLSGLILLAGYIAFDSFTSNWQDALFAYKMSSV
QMMFGVNFFSCLFTVGSLLLEQGALLEGTRFMGRHSEFAAHALLLSICSACGQLFIFYTIGQFGAAVFTIIMTLRQ
AFAILLSCLLYGHTVTVVGGLGVAVVFAALLLRVYARGRLKQRGKKAVPVESPVQKV

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FIGURE 1874

CTCCGGCGCAGTGTGGGACTGTCTGGGTATCGGAAAGCAAGCCTACGTTGCTCACTATTACGTATAATCCTTTT
CTTTTCAAGATGCCTGAGGAAGTGCACCATGGAGAGGAGGAGGTGGAGACTTTTGCCTTTCAGGCAGAAATTGCC
CAACTCATGTCCCTCATCATCAATACCTTCTATTCCAACAAGGAGATTTTCCCTCGGGAGTTGATCTCTAATGCT
TCTGATGCCTTGGACAAGATTGCTATGAGAGCCTGACAGACCCTTCGAAGTTGGACAGTGGTAAAGAGCTGAAA
ATTGACATCATCCCCAACCCCTCAGGAACGTACCCTGACTTTGGTAGACACAGGCATTGGCATGACCAAAGCTGAT
CTCATAAATAATTTGGGAACCATTGCCAAGTCTGGTACTAAAGCATTTCATGGAGGCTCTTCAGGCTGGTGCAGAC
ATCTCCATGATTGGGCGAGTTTGGTGTGGCTTTTATTCTGCCTACTTGGTGGCAGAGAAAAGTGGTTGTGATCACA
AAGCACAACGATGATGAACAGTATGCTTGGGAGTCTTCTGCTGGAGGTTCCCTTCACTGTGCGTGCTGACCATGGT
GAGCCCATTTGGCAGGGGTACCAAAGTGATCCTCCATCTTAAAGAAGATCAGACAGAGTACCTAGAAGAGAGGCGG
GTCAAAGAAGTAGTGAAGAAGCATTCTCAGTTTCATAGGCTATCCCATCACCCCTTTATTGGAGAAGGAACGAGAG
AAGGAAATTAGTGATGATGAGGCAGAGGAAGAGAAAGGTGAGAAAGAAGAGGAAGATAAAGATGATGAAGAAAA
CCCAAGATCGAAGATGTGGGTTCAGATGAGGAGGATGACAGCGGTAAGGATAAGAAGAAGAAAACTAAGAAGATC
AAAGAGAAATACATTGATCAGGAAGAACTAAACAAGACCAAGCCTATTTGGACCAGAAACCCTGATGACATCACC
CAAGAGGAGTATGGAGAATTCTACAAGAGCCTCACTAATGACTGGGAAGACCACTTGGCAGTCAAGCACTTTTCT
GTAGAAGGTCAGTTGGAATTCAGGGCATTGCTATTTATTCTCGTCGGGCTCCCTTTGACCTTTTGGAGAACAAG
AAGAAAAAGAACAACATCAAACTCTATGTCCGCCGTGTGTTTCATCATGGACAGCTGTGATGAGTTGATACCAGAG
TATCTCAATTTTATCCGTGGTGTGGTTGACTCTGAGGATCTGCCCCGTAACATCTCCCCGAGAAATGCTCCAGCAG
AGCAAAATCTTGAAAGTCATTGCAAAAACATTGTTAAGAAGTGCCTTGAGCTCTTCTCTGAGCTGGCAGAAGAC
AAGGAGAATTACAAGAAATCTATGAGGCATTCTCTAAAAATCTCAAGCTTGGAATCCACGAAGACTCCACTAAC
CGCCGCCGCTGTCTGAGCTGCTGCGCTATCATACCTCCAGTCTGGAGATGAGATGACATCTCTGTGACAGTAT
GTTTCTCGCATGAAGGAGACACAGAAGTCCATCTATTACATCACTGGTGAGAGCAAAGAGCAGGTGGCCAACTCA
GCTTTTGTGGAGCGAGTGCGGAAACGGGGCTTCGAGGTGGTATATATGACCGAGCCCATTTGACGAGTACTGTGTG
CAGCAGCTCAAGGAATTTGATGGGAAGAGCCTGGTCTCAGTTACCAAGGAGGGTCTGGAGCTGCCTGAGGATGAG
GAGGAGAAGAAGAAGATGGAAGAGAGCAAGGCAAAGTTTGAGAACCTCTGCAAGCTCATGAAAGAAATCTTAGAT
AAGAAGGTTGAGAAGGTGACAATCTCCAATAGACTTGTGTCTTCACCTTGCTGCATTGTGACCAGCACCTACGGC
TGGACAGCCAATATGGAGCGGATCATGAAAGCCCAGGCACTTCGGGACAACCTCCACCATGGGCTATATGATGGCC
AAAAAGCACCTGGAGATCAACCCTGACCACCCCATTTGTGGAGACGCTGCGGCAGAAGGCTGAGGCCGACAAGAA
GATAAGGCAGTTAAGGACCTGGTGGTGTGCTGCTGTTTGAAACCGCCCTGCTATCTTCTGGCTTTTCCCTTGAGGAT
CCCCAGACCCACTCCAACCGCATCTATCGCATGATCAAGCTAGGTCTAGGTATTGATGAAGATGAAGTGGCAGCA
GAGGAACCCAATGCTGCAGTTCTGATGAGATCCCCCTCTCGAGGGCGATGAGGATGCGTCTCGCATGGAAGAA
GTCGATTAGGTTAGGAGTTTCATAGTTGGAAAACTTGTGCCCTTGATAGTGTCCCCATGGGCTCCCACTGCAGCC
TCGAGTGCCCTGTCCCACCTGGCTCCCCCTGCTGGTGTCTAGTGTTTTTTTCCCTCTCCTGTCTTGTGTTGAA
GGCAGTAACTAAGGGTGTCAAGCCCCATTCCCTCTCTACTCTTGACAGCAGGATTGGATGTTGTGATTGTGGT
TTATTTTATTTTCTTCATTTTGTCTGAAATTAAAGTATGCAAAATAAAGAATATGCCGTTTTAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAA

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FIGURE 1875

MPEEVHHGEEEVETFAFQAEIAQLMSLIINTFYNSKEIFLRELISNASDALDKIRYESLTDPSKLD SGKELKIDI
IPNPQERTLTTLVDTGIGMTKADLINNLGTIAKSGTKAFMEALQAGADISMIGQFGVGFYSAYLVAEKVVVITKHN
DDEQYAWESSAGGSFTVRADHGEP IGRGTKVILHLKEDQTEYLEERRVKEVVKKHSQFIGYPITLYLEKEREKEI
SDDEAEEEEKGEKEEEDKDDEEKPKIEDVGSDEEDDSGKDKKKKTKKIKEKYIDQEELNKT KPIWTRNPDDITQEE
YGEFYKSLTNDWEDHLAVKHFSVEGQLEFRALLFIPRRAPFDLFENKKKKNNIKLYVRRVFIMDSCDELIPEYLN
FIRGVVDSEDLPLNISREMLQQSKILKVIRKNIVKKCLELFSELAEDKENYKKFYEA FSKNLKLG IHEDSTNRRR
LSELLRYHTSQSGDEMTSLSEYVSRMKETQKSIYYITGESKEQVANS AFVERVRKRGFEVVMTEPIDEYCVQQL
KEFDGKSLVSVTKEGLELPEDEEEKKKMEESKAKFENLCKLMKEILDKKVEKVTISNRLVSSPCCIVTSTYGWTA
NMERIMKAQALRDNSTMGYMAKKHLEINPDHP IVETLRQKAEADKNDKAVKDLVVLLFETALLSSGFSLEDPQT
HSNRIYRMIKLG LGIDEDEVAAEEPNAAVPDEIPPLEGDEDASRMEEVD

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FIGURE 1876

GGGCTGCGCTCTCCAGCTGTGGCTATGGCCCCAGCCCCGAGATGAGGAGGGAGAGAACTAGGGGGCCCGCAGGCCT
GGGAATTTCCGTCCCCACCAAGTCCGGATGCTCACTCCAAAGTCTCAGCAGGCCCTGAGGGAGGGAGCTGTCA
GCCAGGGAAAACCGAGAACACCATCACCATGACAACCAGTCACCAGCCTCAGGACAGATACAAAGCTGTCTGGCT
TATCTTCTTCATGCTGGGTCTGGGAACGCTGCTCCCGTGGAAATTTTTTCATGACGGCCACTCAGTATTTCAAAA
CCGCCTGGACATGTCCCAGAATGTGTCCTTGGTCACTGCTGAAGTGAAGGACGCCAGGCCTCAGCCGCCCC
TGCAGCACCTTGCCTGAGCGGAACCTCTCTCAGTGCCATCTTCAACAATGTCATGACCCTATGTGCCATGCTGCC
CCTGCTGTTATTACCTACCTCAACTCCTTCTGTCATCAGAGGATCCCCCAGTCCGTACGGATCCTGGGCAGCCT
GGTGGCCATCCTGCTGGTGTCTGATCACTGCCATCCTGGTGAAGGTGCAGCTGGATGCTCTGCCCTTCTTTGT
CATCACCATGATCAAGATCGTGCTCATTAATTCATTTGGTGCCATCCTGCAGGGCAGCCTGTTTGGTCTGGCTGG
CCTTCTGCCTGCCAGCTACACGGCCCCCATCATGAGTGGCCAGGGCCTAGCAGGCTTCTTTGCCCTCCGTGGCCAT
GATCTGCGCTATTGCCAGTGGCTCGGAGCTATCAGAAAGTGCCTTCGGCTACTTTATCACAGCCTGTGCTGTTAT
CATTTTGACCATCATCTGTTACCTGGGCCTGCCCCGCTGGAATTCTACCGCTACTACCAGCAGCTCAAGCTTGA
AGGACCCGGGGAGCAGGAGACCAAGTTGGACCTCATTAGCAAAGGAGAGGAGCCAAGAGCAGGCAAAGAGGAATC
TGGAGTTTCAGTCTCCAACCTCTCAGCCCACCAATGAAAGCCACTCTATCAAAGCCATCCTGAAAAATATCTCAGT
CCTGGCTTTCTCTGTCTGCTTTCATCTTCACTATCACCATTGGGATGTTTCCAGCCGTGACTGTTGAGGTCAAGTC
CAGCATCGCAGGCAGCAGCACCTGGGAACGTTACTTCATTCTGTGTCTGTTTCTTGACTTTCAATATCTTTGA
CTGTTTGGGCGGAGCCTCACAGCTGTATTATGTGGCCTGGGAAGGACAGCCGCTGGCTGCCAAGCCTGGTGCT
GGCCCGGCTGGTGTGTTGTGCCACTGCTGCTGTGTGCAACATTAAGCCCCGCGCTACCTGACTGTGGTCTTCGA
GCACGATGCCTGGTTTCATCTTCTTCATGGCTGCCTTTGCCTTCTCCAACGGCTACCTCGCCAGCCTCTGCATGTG
CTTCGGGCCCCAAGAAAGTGAAGCCAGCTGAGGCAGAGACCGCAGGAGCCATCATGGCCTTCTTCTGTGTCTGGG
TCTGGCACTGGGGGCTGTTTTCTCCTTCTGTTCCGGGCAATTGTGTGACAAAGGATGGACAGAAGGACTGCCTG
CCTCCCTCCCTGTCTGCCTCCTGCCCCCTTCTTCTGCCAGGGGTGATCCTGAGTGGTCTGGCGGTTTTTTCTTCT
AACTGACTTCTGCTTTCCACGGCGTGTGCTGGGCCCGGATCTCCAGGCCCTGGGGAGGGAGCCTCTGGACGGACA
GTGGGGACATTGTGGGTTTGGGGCTCAGAGTCGAGGGACGGGGTGTAGCCTCGGCATTGCTTGAGTTTCTCCAC
TCTTGGCTCTGACTGATCCCTGCTTGTGTCAGGCCAGTGGAGGCTCTTGGGCTTGGAGAACACGTGTGTCTCTGTG
TATGTGTCTGTGTGTCTGCGTCCGTGTCTGTCTGCACTGTCTGCCTGTCTTGGGGTGGCTAGGAGCTGGGTCTGAC
CGTTGTATGGTTTACCTGATATACTCCATTCTCCCCCTGCGCCTCCTCCTCTGTGTTCTCTCCATGTCCCCCTCC
CAACTCCCCATGCCAGTTCTTACCCATCATGCACCCTGTACAGTTGCCACGTTACTGCCTTTTTTAAAAATATA
TTTGACAGAAACCAGGTGCCTTCAGAGGCTCTCTGATTTAAATAAACCTTTCTTGTTTTTTT

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FIGURE 1877

CACATGCTGCACGCGCATCTCGCCCCAGGGGCACTGCCTGGAAGATTCAGGAGCCTGGGCGGCCTTCGCTTACT
CTCACCTGCTTCTGAGTTGCCAGGAGACCACTGGCAGATGTCCCGGCGAAGAGAAGAGACACATTGTTGGAAGA
AGCAGCCCATGACAGCTCCCCCTTCCTGGGACTCGCCCTCATCCTCTTCCTGCTCCCCCTTCCTGGGGTGCAGCCTA
AAAGGACCTAIGTCCTCACACCATTGAAACCACTAGTTCTGTCCCCCAGGAGACCTGGTTGTGTGTGTGTGAGT
GGTTGACCTTCCTCCATCCCCTGGTCCTTCCCTTCCCTTCCCGAGGCACAGAGAGACAGGGCAGGATCCACGTGC
CCATTGTGGAGGCAGAGAAAAGAGAAAGTGTTTTATATACGGTACTTATTTAATATCCCTTTTTAATTAGAAATT
AAAACAGTTAATTTAATTAAAGAGTAGGGTTTTTTTTTCAGTATCTTGTTAATATTTAATTTCAACTATTTATG
AGATGTATCTTTTGCTCTCTCTTGCTCTCTTATTTGTACCGGTTTTTGTATATTTGAACAGATATTTAATTTTGC
TAACACTCAGCTCTGCCCTCCCCGATCCCCTGGCTCCCCAGCACACATTCCTTTGAAATAAGGTTTCAATATACA
TCTACATACTATATATATATTTGGCAACTTGTATTTGTGTGTATATATATATATATA

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FIGURE 1878

GCGCGAGCCGCGCCGCCCCGGTCGGGCCTCCGAAACCATGAACTTTCTGCTGTCTTGCGTGCATTGGAGCCTTG
CCTTGCTGCTCTACCTCCACCATGCCAAGTGGTCCCAGGCTGCACCCATGGCAGAAGGAGGAGGGCAGAATCATC
ACGAAGTGGTGAAGTTCATGGATGTCTATCAGCGCAGCTACTGCCATCCAATCGAGACCCTGGTGGACATCTTCC
AGGAGTACCTGATGAGATCGAGTACATCTTCAAGCCATCCTGTGTGCCCCCTGATGCGATGCGGGGGCTGCTGCA
ATGACGAGGGCCTGGAGTGTGTGCCCCACTGAGGAGTCCAACATCACCATGCAGATTATGCGGATCAAACCTCACC
AAGGCCAGCACATAGGAGAGATGAGCTTCCTACAGCACAACAAATGTGAATGCAGACCAAAGAAAGATAGAGCAA
GACAAGAAAAAAATCAGTTCGAGGAAAAGGAAAAGGGGCAAAAACGAAAGCGCAAGAAATCCCGGTATAAGTCCT
GGAGCGTGACGTTGGTGCCCGCTGCTGTCTAATGCCCTGGAGCCTCCCTGGCCCCCATCCCTGTGGGCCTTGCT
CAGAGCGGAGAAAGCATTGTTTGTACAAGATCCGCAGACGTGTAAATGTTCTGCAAAAACACAGACTCGCGTT
GCAAGGCGAGGCAGCTTGAGTTAAACGAACGTACTTGCAGATGTGACAAGCCGAGGCGGTGAGCCGGGCAGGAGG
AAGGAGCCTCCCTCAGGGTTTCGGGAACAGATCT

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FIGURE 1879

TACCCCTTCATGCTCCAGTGCACCCAGGCTTCGTGGCCAGCCTGGGAAACTGTCTCTACCCCTGGTCTCCCTTCA
GATCAGCTTCTAGAAATGTTTTCGTGGCTACAGTGGCAGCACTGTTTTTCCATGATGCAAGCAGTTTGCCCTCTT
GGGCGGGGTTATCAGTGGCTGGCAGGGCTGGCACAGCGTGTCCGCCCACTGCCACCTGTGGGTTCAGGAGGGCC
CAGCCCCCTGTGCTGATGCCACCACTTCTCAGCTCATGTCTGGGGAAGAGGACTGGCAGGGGGAAAGGTGCCTC
CTCCTGAAAGGTGCCTCCTCTGTTTTTGCCTAATATAGGCTTGGGAACACTTTGATGTGACGTAATTCGACTCC
TTTACTTACTAGCTGTGCGGCCTTGGGGCACTTACTTAGCCTCTTTGAGCCTCCTGTTCCCATCTGTAAAATG
GAATCTCAATAGTGTCTAATAGTACCATGTGGAGAACTTGTGTGAAATGATAGCTGTGGACTACTGTACACAGT
ACTCAGGATGTAGTAAGTGCTCAATAAACAGCTGTTGGTATGGTTGACGTTATGGTAGTGGTTGTGGGGAGGACG
TAGGAACTGGAGACTAGCTTGGCAAAGCTGGCTCTTCCTCCTTTTAGGGAAAGCTTAGAGCATCCCCATGGGGT
ATACCCATACTCAGACTGTCTCTGGCATCGAGGTTGGCCAGGATTACGTTTACGCTGTCACAGTGAGGTGGCGG
GATCAGATGTGGCAGGCCATGTCCCTTGGAACCTGAGTACATCGTGTGATCTCTGGAATGAAAACAGGCCCTTAC
CAGTGTGATGGTGGAAAGCTTAGGGAAAGTGCTTCAAACACAGTAGGAGGGACTTACGTTAGATTTTGGAAAGGAC
TTGCCTGATTTCGGAAGCTCCAAAGAGTGGCATTACAGAGCTGGGTGGAGAGAGGGGGCTAGCCATCTTTTGTGTCG
CCCACCGGGCTCATGTGTATCGCCTCTCATGCAGTGGTGAAGTTCATGGATGTCTATCAGCGCAGCTACTGCCA
TCCAATCGAGACCTGGTGGACATCTTCCAGGAGTACCCCTGATGAGATCGAGTACATCTTCAAGCCATCCTGTGT
GCCCCTGATGCGATGCGGGGGCTGCTGCAATGACGAGGGCCTGGAGTGTGTGCCCACTGAGGAGTCCAACATCAC
CATGCAGGTGGGCATCTTTGGGAAGTGGGGCAAGGGGGGGATAGGGAGGGGGTAACACTTTGGGAACAGGTGGT
CCCAGGTCGTTTCCTGGCTAGATTTGCCTTGCTGGCTCCTGCCCCTGAGTTGCACAGGGGAGGTATGGTGGGGT
CTTGCCCTTCTGTGGAGAAGATGCTTCATTCCAGCCCAGGTTCCAGCAAGCCCCAACCATCTCCTTCTCCCTGA
TGGTTGCCCATGGGCTCAGGAGGGGACAGATGGATGCCTGTGTGAGGAGCCCCTCTCTCCCTCTCTTGGAGAGAG
TCCTGAGTGCCCCCCTTCTTGGGGGCTTTGTTTGGGAAGCTGGATGAGCCTGGTCCATGGAGAGTTTAAAAAGT
CTTTTGGTGTACCTGGTAATGGGGCACATCTCAGCCCAGATAGGGTGGGAGGGAGCTGTGAAACACAGGGAGGG
GGTTGCTTTTCGGGTATCTACTAGGAGTCAGGGTGAAGCCTAGAGAGGATGAAAGAAGGGGAGGGGATGGGGAGTG
GTAAGAACCTAGGATTTGAATTCCCAGCCTGGCCAACCCTTGAGCCATGTCTTGGCCTCAAGTGGAACAAGGGC
TCCTTGAGGCCAGCAGGGTTGGGGGAGTTGGGGTGGGCCTGAGCCTCTTTCTGCTAGAGCTCTTGGTCTCCTCCT
GCCTCCACCACCCATCCCTGCTCTGCAGAACCCTGGGTGCTGAGTGGCAGGAGCCCCAGGGTTGTCCCATCTGG
GTATGGCTGGCTGGGTCACTAACCTCTGTGATCTGCTTCCTTCCTTTCCAGATTATGCGGATCAAACCTCACCAA
GGCCAGCACATAGGAGAGATGAGCTTCTACAGCACAAACAAATGTGAATGCAGGTGAGGATGTAGTCACGGATTC
ATTATCAGCAAGTGGCTGCAGGGTGCCTGATCTGTGCCAGGGTTAAGCATGCTGTACTTTTTGGCCCCCGTCCAG
CTTCCCGCTATGTGACCTTTGGCATTCTTACTTCAATGTGCCTCAGTTTCTACATCTGTAAAATGGGCACAATAGT
AGTATACTTCATAGCATTGTTATAATGATTAAACAAGTTATATATGAAAAGATTAAACAGTGTTGCTCCAT

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FIGURE 1880

AGGTTTTTGAAGATGCGGGCCCTCAAGGCTCTGGTGTCCGGCTGTGGGCGGCTTCTCCGTGGGCTACTAGCGGGC
CCGGCAGCGACCAGCTGGTCTCGGCTTCCAGCTCGCGGGTTCAGGGAAGTGGTGGAGACCCAAGAAGGGAAGACA
ACTATAATTGAAGGCCGTATCACAGCGACTCCCAAGGAGAGTCCAAATCCTCCTAACCCCTCTGGCCAGTGGCCC
ATCTGCCGTTGGAACCTGAAGCACAAAGTATAACTATGACGATGTTCTGCTGCTTAGCCAGTTCATCCGGCCCTCAT
GGAGGCATGCTGCCCCGAAAGATCACAGGCCTATGCCAGGAAGAACACCGCAAGATCGAGGAGTGTGTGAAGATG
GCCCACCGAGCAGGTCTATTACCAAATCACAGGCCTCGGCTTCCTGAAGGAGTTGTTCCGAAGAGCAAACCCCAA
CTCAACCGGTACCTGACGCGCTGGGCTCCTGGCTCCGTCAAGCCCATCTACAAAAAGGCCCCCGCTGGAACAGG
GTGCGCATGCCCGTGGGGTCACCCCTTCTGAGGGACAATGTCTGCTACTCAAGAACACCTTGGAAGCTGTATCAC
TGACAGAGAGCAGTGCTTCCAGAGTTCCTCCTGCACCTGTGCTGGGGAGTAGGAGGCCCACTCACAAGCCCTTGG
CCACAACCTATACTCCTGTCCCACCCACACGATGGCCTGGTCCCTCCAACATGCATGGACAGGGGACAGTGGGA
CTAACTTCAGTACCCTTGGCCTGCACAGTAGCAATGCTGGGAGCTAGAGGCAGGCAGGGCAGTTGGGTCCCTTGC
CAGCTGCTATGGGGCTTAGGCCATGCTCAGTGCTGGGGACAGGAGTTTTGCCCAACGCAGTGTATAACTGGGT
TCATGGGCTTACCCATTGGGTGTGCGCTCACTGCTTGGGAAGTGCAGGGGGTCTGGGCACATTGCCAGCTGGGT
GCTGAGCATTGAGTCACTGATCTCTTGTGATGGGGCCAATGAGTCAATTGAATTGATGGGCCAAACAGGTCCCAT
CCTCTTCATG

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FIGURE 1881

MAALKALVSGCGRLLRGLLAGPAATSWRLPARGFREVVETQEGKTTIIEGRITATPKESPNNPPNSGQCPICRW
NLKHKYNYDDVLLLSQFIRPHGGMLPRKITGLCQEEHRKIEECVKMAHRAGLLPNHRPRLPEGVVPKSKPQLNRY
LTRWAPGSVKPIYKKGPRWNRVRMPVGSPLLRDNVCYSRTPWKLYH

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FIGURE 1882A

AGCTGTCGTGCCTCGTGGTCCCGGGACTGCAGTGGTGTGCGCTCTCGGCGCGTGGCGCTAGGCATGGCGATGGAT
CAAGTAAACGCGCTGTGCGAGCAGCTGGTGAAAGCGGTGACGGTCATGATGGACCCCAACTCCACCCAGCGCTAC
CGGCTGGAAGCCCTCAAGTTTTGTGAGGAGTTTAAAGAAAAGTGTCTATCTGTGTCCCTGTGGCTTGAGGTTG
GCTGAGAAAACACAAGTTGCCATCGTCAGACATTTTGGCCTTCAGATCCTGGAACACGTTGTCAAGTTTCGGTGG
AACGGCATGTCTCGATTGGAGAAGGTGTATCTGAAGAACAGTGTCTGAGAGCTGATTGCAAATGGAACATTGAAC
ATTTTGAAGAGGAGAACCATATTAAAGATGCTCTGTCTCGAATTGTAGTGGAAATGATCAAGCGAGAGTGGCCA
CAGCATTGGCCTGACATGCTAATAGAATTGGACACTCTTTCCAAACAAGGGGAAACACAGACAGAATTGGTGATG
TTTATCCTTTTGGCACTGGCAGAGGATGTAGTGACTTTTCAGACACTTCCCCCTCAAAGAAGAAGGGACATCCAG
CAAACATTAACCCAGAACATGGAAAGGATCTTCAGTTTTCTGCTTAACACACTTCAAGAAAATGTAAACAAGTAT
CAGCAAGTGAAGACAGATACTTCTCAGGAGTCAAAGGCGCAAGCAAACCTGTCGAGTAGGAGTTGCAGCACTGAAT
ACTCTAGCAGGCTATATTGACTGGGTGTCTATGAGTCACATCACTGCTGAAAACCTGTAAACTCCTGGAGATACTG
TGTTTGCTGTTGAATGAACAGGAACCTTCAGTTGGGAGCCGCTGAGTGTCTTCTCATTGCAGTCAGCAGAAAAGGC
AAGTTGGAAGACCGGAAGCCCTTGATGGTCTTATTTGGAGATGTTGCCATGCATTATATACTCTCCGCCGCACAG
ACTGCTGATGGAGGAGGTTTGGTAGAAAAACACTACGTCTTTCTGAAGAGGCTCTGTCAGGTGTTGTGTGCGCTG
GGCAATCAGCTGTGTGCATTGCTGGGTGCAGATTCTGATGTAGAAACACCATCAAACCTTTGGAATAACCTGGAA
TCTTTTCTTGCTTTCACAACCCATCCAAGTCAGTTTCTACGCTCTTCAACTCAGATGACTTGGGGAGCCCTCTTC
AGGCATGAAATCCTGTCCCGTGATCCTTTGCTATTAGCAATAATACCAAATATCTTCGTGCTTCCATGACTAAC
TTGGTCAAGATGGGCTTTTCTTCTAAACAGACAGCCCTAGCTGTGAATATTCTCGGTTTGATTTTGATAGCGAT
GAGGACTTCAATGCTTTCTTCAACTCCTCCCGAGCACAAACAAGGAGAGGTGATGAGGTTGGCATGTCGTTTGGAT
CCCAAACTAGCTTCCAGATGGCTGGGGAGTGGCTAAAGTATCAACTATCAACTTTTCTTGATGCTGGTTCTGTG
AATCTTGTCTGTCAGTTGGAAGTGGAGAAGGAAGCCCTCTGTTCCGTCTTCTCACCTTCATTCTGTCAGTGGGAA
GCCATGACTCTTTTTTTGGAAAGTGTATCACCCAGATGTTTTCGAACACTAAATAGAGAAGAAATTCCTGTTAAT
GATGGAATAGAGCTATTGCAGATGGTTCTGAACTTTGATACCAAGGATCCCTCATCCTGTCCTGCGTCTTACT
AATGTCTCTGCACTCTTTCCATTTGTCACCTACAGACCAGAGTTCTGCCCCAGGTCTTCTCTAAGCTATTTTCA
TCTGTCACTTTTGAAGTGTGTAAGAAAGTAAGGCCCCCAGAACC CGGCGAGTGAGGAATGTGAGGAGGCATGCT
TGTTCTCCATCATCAAGATGTGTGCTGACTACCCCGAGCTTGCTGCTGCCCAATTTTGACATGCTTTATAACCAT
GTGAAGCAACTCCTCTCCAATGAGCTACTCCTGACACAAATGGAGAAGTGTGCCCTCATGGAAGCCCTGGTTCTC
ATTAGCAACCAATTTAAGAACTACGAGCGTCAGAAGGTGTTCTAGAGGAGCTGATGGCACCAGTGGCCAGCATC
TGGCTTTCTCAAGACATGCACAGAGTGTGTGCTGATGTTGATGCTTTTATTGCGTATGTGGGTACAGATCAGAAG
AGCTGTGACCCAGGCTGGAGGATCCGTGTGGCTTAAACCGTGACGAATGAGCTTTTGTGTATACAGCATTCTG
GGTGTGGTGAAACGAACCTTGCTGGCCCACTGACCTAGAAGAGGCCAAAGCTGGGGGATTGTGGTGGGTTATACA
TCCAGTGGAAATCCAATCTTCCGTAACCCCTGCACAGAGCAGATTCTGAAACTTCTTGACAATTTGCTTGCCTT
ATAAGAACCCACAATACATTATATGCACCAGAAATGTAGCCAAAATGGCAGAGCCTTTCACCAAGGCTCTGGAT
ATGCTTGACGCGGAAAAATCTGCTATATTAGGATTACCTCAACCTCTCTTGGAAGTCAATGACTCTCCTGTCTTC
AAAACCGTCTTTGGAAGAATGCAGCGTTTCTTCTTACCTCTATGAAAACCTGTTTTCATATCCTAGGGAAGGCA
GGCCCTTCCATGCAGCAAGACTTCTATACTGTGGAGGACCTTGCTACCCAGCTTCTCAGCTCAGCCTTTGTCAAC
TTGAACAATATTCTGACTACCGACTCAGACCCATGCTTCATGTCTTTGTAAAGCCTCTGGTGCTCTTCTGTCCC
CCAGAGCACTATGAAGCCCTGGTATCCCCCATCCTCGGACCTCTTTTACCTACCTCCATATGAGGCTTTCTCAG
AAATGGCAAGTTATCAACCAAAGGAGCCTGCTGTGTGGAGAAGATGAGGCTGCAGATGAAAACCCAGAGTCTCAA
GAGATGCTGGAGGAGCAACTGGTGAGGATGTTAACCCGAGAAGTCATGGACCTAATCACGGTTTGCTGTGTTTCA
AAGAAGGGTGCTGACCACAGTAGTGCTCCCCCAGCAGATGGAGACGATGAAGAAATGATGGCCACAGAGGTCACC
CCCTCAGCTATGGCAGAGCTTACAGACCTGGGCAAATGTCTGATGAAGCATGAGGATGTTTGTACAGCGCTATTA
ATTACAGCCTTCAATTCCCTGGCCTGGAAAGATACTCTGTCTGCGAGAGGACAACCTCACAGCTCTGCTGGCCT
CTCCTCAAACAAGTGTGTGCTGAGGGACACTGCTCGCAGATGCAGTTACGTGGCTTTTACCAGTGTGCTGAAAGGC
TTACAGATGCACGGGCAGCACGACGGGTGCATGGCTTCCCTGGTCCATCTGGCCTTCCAGATATACGAGGCACTG
CGCCCCAGGTACCTGGAGATAAGAGCTGTAATGGAGCAAATCCCTGAAATACAGAAGGACTCACTGGACCAGTTT
GACTGCAAGCTTTTAAACCCCTCCCTGCAGAAAGTGGCTGACAAGCGCCGAAAGGACCAATTCAAACGCCTCAT
GCTGGTTGCATTGGGAACCCCTGGGAGAGCAGTTCCGAAAAGAAGTTCACATTAAGAATCTTCCCTCACTTTTC

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FIGURE 1882B

AAAAAAAAACAAAGCCAATGCTGGAGACGGAGGTGCTGGACAATGATGGGGGTGGCCTGGCCACCATCTTTGAACCC
TGAATCAAGCTTTTGGGCATCCTTCCTCGGCCTTTCTTGTCATCTCTTCTTTCCCTTTGTAGCCGATCTCTAGGC
CCTTCTTGCACTGCCACCTCACTTTCCACCCTGTGAGCCTGGAAAGAGATCCAGGTCTGGAGCTGGAGAGAACA
GGCCCTGTGCAGGACCAGAAGTAATTATACTAAAGTATCAAGAAAGGGAGTTAGGGCTTAACTATTCTGTCTAG
ATGTCCCAGATAGTTCCCATTTCTACTTGGAGATTTGGCTTTTCCAAGAAAAGCTAGAGCAGAGCAGCCCTTCTCC
CACAAGCCCTCCCACCCCGTGCAGCCACATACCTGTACAGAATGGTAAC TAAGGGTGCTGTGCCCAACCCTGCG
ACTAGCAAGGCTCGCAGCAAGAGCACAGCCCTCACTACTTGTGCCAGAGTTTCTCTTGGACCACTCCAACCTCCC
ACTGAGCCCTTTTGCTGCTGGGCTGGCAGGAACTTTCCCCACTCCCTAAGGGGCATGTCTGGGTTAGGTGCTAA
GTGCTGAAGAGAACTTGGTCAGTTCTCTCAACTTTGCTTTGGGCAAGAATCTGGTCACCTGATGGGATCCATGGT
ACAGGCTACTGCTAACTTGGCACAGTATCAAGTATAGTACCTCCAAGGACCAGGGCTGGGAAGTCTTTAGTGCT
AACATCCCCCTTTAGAGTTTACACATCTTGCCCTTCCATGAATGACCCCTCAGTCTGGCCTCCCCAGCCTCAAGGT
CCACTCAGGCACAAGAGCCACAGTACCCTAGATAGTGTACATGACACCGTTGTCTCATCCAAGGATAATACAGACC
AACTAGGCTACATCTGTGATGAGCAGCTAGCAAAGCCGCTGGTCTTCTCCTAGGACTAAGTCCAGGTGCCTTCCA
CAATCTCATGGTCTTTCAGGTCCCTGGTTACTTTTCTCAAAGGCCATTTCCAAAAGAATACATGCCTTCACATCA
CAACCTGTACTGTGAGTCCATTCTAGAGGTCACTGAAAGGCCCTGTAAAGAGAGGACATGGATACGGGACCTGGC
CCTGAGGTTATTACTGGCCGTAAGGCAGAGTTAATCCATACAGAAACCAGTGTGTCCATGTGCTCTGCACAAAAA
CAGACCTGTTGTCCATCCAGTCCACTGACAAGAGGGTTTCCCCGAGAGCCGAAGTGGACTGAAGCTACAGTTTTT
AGCTGGTGCGGGCCACAGGCAGGGTCAGATTGAGAAGAAGCAAAGCTGGGGAAGCAGAAGTTGGGAGTCTTGTGT
TGCTCCCTCTTCTGTGTGGTGTCTGGGTTTCTGTGGATCGTGAAGGCGATCTCAAGAGTGTTCCTCCAAAC
CTGATAGCTGCCTATTCTGTCTGGTTGGGGCTGTGGAGGATGTAGTTGTATTTATTGCATTGTAATATTTTAA
CATCCTGTGACTTCATGCTAGAAATTTTCTATTGTTTATAGAACTTTTTGTAGAAACATTAACCTCTAAAGCACA
TCTGCATGTGAGTAAAAATCTCAGTTTCGTACAG

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FIGURE 1883

CACCAAATGGCGGATGACGCCGGTGCAGTGGGGGGGCTGGAGGCCCTGGTGGCCCTGGGATGGGGAACCGCGGT
GGCTTCCGCAGAGGTTTTCGCCAGTGGCATCCGGGGCCGGGGTCGCAGCCGTGGACCGGGCCGGGGCTGAGGCCGC
GGAGCTCGCGGAGGCAAGGCCAAAGATAAGGAGTGGATGCCCCGCACCAAGCTGGGCCGCTTGGTCAAGGACATG
AAGATCAAGTCCCTGGAGGAGATCTATCTCTTCTCCCTGCCATTAAGGAATCAGAGATCATTGACTTTTTCTCTG
GGGGCCTCTCTCAAGGATGAGGTTTTGAAGATTATGCCAGTGCAGAAGCAGACCCGTGCTGGCCAGCGCACCAGG
TTCAAGGTGACAGGCCGCGCGTGGCTCTGTGCTGGTGCGCCTCATCCCTGCACCCAGGGGCACTGGCATTGTCTCC
GCACCTGTGCCAAGAAGCTGCTCATGATGGCTGGTATCGATGACTGCTACACCTCAGCCCAGGGCTGCACTGCC
ACCCTGGGCAACTTCGCCAAGGCCACCTTTGATGCCATTTCTAAGACCTACAGCTACCTGACCCCGACCTCTGG
AAGGAGACTGTATTTACCAAGTCTCCCTATCAGGAATTCAGTACCACCTCGTCAAGACCCACACCAGAGTCTCT
GTGCAGCAGACCCAGGCTCCAGCTGTGGCTACAACATAGGGTTTTTATACAAGAAAAATAAAGTGAATTAAGCGT
G

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FIGURE 1884

CGCGGAGCTCGCGGAGGCAAGGCCAAAGATAAGGAGTGGATGCCCGTCACCAAGCTGGGCCGCTTGGTCAAGGAC
ATGAAGATCAAGTCCCTGGAGGAGATCTATCTCTTCTCCCTGCCATTAAAGGAATCAGAGATCATTGACTTTTTTC
CTGGGGGCCTCTCTCAAGGATGAGGTTTTGAAGATTATGCCAGTGCAGAAGCAGACCCGTGCTGGCCAGCGCACC
AGGGCTCTCCATTGTCCCCGTGCACAGAGGCTACTAGGGGAACAAGATCGGCAAGCCCCACACCGTCCCCTGCAA
GGTGACAGGCCCGCCGTGGCTCTGTGCTGGTGCGCCTCATCCCTGCACCCAGGGGCACTGGCATTGTCTCCGCACC
TGTGCCCCAAGAAGCTGCCATTTCTAAGACCTACAGCTACCTGACCCCGACCTCTGGAAGGAGACTGTATTTACC
AAGTCTCCCTATCAGGAATTCAGTACCACCTCGTCAAGACCCACACCAGAGTCTCTGTGCAGCAGACCCAGGCT
CCAGCTGTGGCTACAACATAGGGTTTTTATACAAGAAAAATAAAGTGAATTAAGCGTG

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FIGURE 1885

MPVTKLGRLVKDMKIKSLEEIYLFSLPIKESSEIIDFFLGDSLKDEVLKIMPVQKQTRAGQRTLHCPRAQRLLGE
QDRQAPHRPLQGDRPLRLCAGAPHPCTQGHWHRLRTCAQELMPSLRPTAT

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FIGURE 1886

GTGTTCCGGCCGATCCACCTCTTCTCGACCCTGGACGTCTACCTTCCGGAGGCCACATCTTGCCCACTCCGCG
CGCGGGGCTAGCGCGGGTTTCAGCGACGGGAGCCCTCAAGGGACCATGGCAACTACAGCGGCGCCGGCGGGCGGCG
CCCGAAATGGAGCTGGCCCGGAATGGGGAGGGTTTGAAGAAAAACATCCAGGGCGGAGGCTCAGCTGTGATTGACA
TGGAGAACATGGATGATACCTCAGGCTCTAGCTTCGAGGATATGGGTGAGCTGCATCAGCGCCTGCGCGAGGAAG
AAGTAGACGCTGATGCAGCTGATGCAGCTGCTGCTGAAGAGGAGGATGGAGAGTTCCTGGGCATGAAGGGCTTTA
AGGGACAGCTGAGCCGGCAGGTGGCAGATCAGATGTGGCAGGCTGGGAAAAGACAAGCCTCCAGGGCCTTCAGCT
TGTACGCCAACATCGACATCCTCAGACCCTACTTTGATGTGGAGCCTGCTCAGGTGCGAAGCAGGCTCCTGGAGT
CCATGATCCCTATCAAGGTGGTCAACTTCCCCCAGAAAATTGCAGGTGAACTCTATGGACCTCTCATGCTGGTCT
TCACTCTGGTTGCTATCCTACTCCATGGGATGAAGACGTCTGACACTATTATCCGGGAGGGCACCCCTGATGGGCA
CAGCCATTGGCACCTGCTTCGGCTACTGGCTGGGAGTCTCATCCTTCATTTACTTCCTTGCCCTACCTGTGCAACG
CCCAGATCACCATGCTGCAGATGTTGGCACTGCTGGGCTATGGCCTCTTTGGGCATTGCATTGTCTGTTTCATCA
CCTATAATATCCACCTCCACGCCCTCTTCTACCTCTTCTGGCTGTTGGTGGGTGGACTGTCCACACTGCGCATGG
TAGCAGTGTGTTGGTGTCTCGGACCGTGGGCCCCACACAGCGGCTGCTCCTCTGTGGCACCCCTGGCTGCCCTACACA
TGCTCTTCCTGCTCTATCTGCATTTTGCTACCACAAAGTGGTAGAGGGGATCCTGGACACACTGGAGGGCCCCA
ACATCCCGCCCATCCAGAGGGTCCCCAGAGACATCCCTGCCATGCTCCCTGCTGCTCGGCTTCCCACCACCGTCC
TCAACGCCACAGCCAAAGCTGTTGCGGTGACCCTGCAGTCACACTTGACCCCACCTGAAATTCTTGCCAGTCCTC
TTTCCCGCAGCTGCAGAGAGGAGGAAGACTATTAAAGGACAGTCCTGATGACATGTTTCGTAGATGGGGTTTGCA
GCTGCCACTGAGCTGTAGCTGCGTGAGTACCTCCTTGATGCCTGTTCGGCACTTCTGAAAGGCACAAGGCCAAGAA
CTCCTGGCCAGGACTGCAAGGCTCTGCAGCCAATGCAGAAAATGGGTCAGCTCCTTTGAGAACCCTCCCCACCT
ACCCCTTCCTTCCTCTTTATCTCTCCACATTGTCTTGCTAAATATAGACTTGGTAATTAAAATGTTGATTGAAG
TCTGG

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FIGURE 1887

MATTAAPAGGARNGAGPEWGGFEENIQGGGSAVIDMENMDDTSGSSFEDMGELHQRLREEEVDADAADAAAAEEE
DGEFLGMKGFKGQLSRQVADQMWOAGKROASRAFSLYANIDILRPYFDVEPAQVRSRLLESMPKVVNFPQKIA
GELYGPLMLVFTLVAILLHGMKTSDTIIREGTLMGTAIGTCFGYWLGVSSFIYFLAYLCNAQITMLQMLALLGYG
LFGHCIVLFITYNIHLHALFYLFWLLVGGLSTLRMVAVLVSRTVGPTQRLLLCGTLAALHMLFLLYLHFAYHKVV
EGILDTLEGPNIPPIQRVPRDIPAMLPAARLPTTVLNATAKAVAVTLQSH

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FIGURE 1888

GCGGAAGCGGCGCCATTTCGTCTTCCGAGCGCTACTGCCAGCTGATGCCGGGAGCTAACTACCGCGCCGGGGCCGG
GGCCGGGGCCGGGGCCCGACGTCCCCGCGGGGCCCCGGGACCGCGAGGAGGACGGCGGGGGCCTGGAGCCCCGCGGC
CGTGGCCCCGCGACCTATTGAGGGGCACATCTAACATGTCATTTGAGGAGCTGTTGGAATTGCAGAGCCAAAGTGGG
GACTAAGACGTACAAACAATTGGTAGCTGGAAATAGTCCTAAGAAACAAGCTTCTAGACCACCTATCCAAAATGC
ATGTGTTGCAGATAAGCACAGGCCTCTGGAAATGTCAGCCAAGATCCGAGTACCATTTTTACGTCAGGTTGTTCC
CATTAGTAAAAAGGTAGCCCGGGACCCTCGCTTTGATGATCTGTCAGGGGAATATAATCCTGAGGTGTTTGACAA
AACATACCAATTCTTGAATGACATCCGAGCGAAAGAGAAAGAGTTGAAGAAGCACCTTTCAGGAGAGGAGCATGA
GAAACTGCAGCAACTGCTTCAGCGAATGGAGCAGCAAGAAATGGCACAGCAGGAACGAAAGCAACAGCAGGAGCT
GCACCTGGCCCTGAAGCAAGAACGTCGGGCTCAGGCCCAGCAGGGCCATCGGCCATACTTCCTGAAAAAATCTGA
GCAGCGCCAGTTGGCACTAGCTGAGAAGTTCAAGGAGCTGAAACGCAGCAAGAAATTGGAGAACTTCTTGAGTCG
AAAGAGGCGACGAAATGCAGGCAAGGACAGGAGACATCTCCCTTTGAGCAAAGAGTAATAAGGAACATCCTCTG
CTCTGCCACTGCCCCAGGGAGACATGGATCTGTGAGGACAGATTTGGCCACGGCTGGTTTCCGTTCAAGGGCAAG
GATCACAGCTGCCCTTGAATCTCATTGCCTCAGAGAAGACTAGAGGGCTCTTGGAATATCCCTAGGGCTACACAA
GAATAGTTTCAGCCTTCTGCCATGCCACACAGCCTCAGCTTGAATCTGGTTCATTGCGTCCTCGTGTTCTTCTCTC
ATCCTTGCCCTTAAACCAGGGATTCTGATACCGAAGAAGAGGGGCCAATGAAAACCATGGAGTCTGTTTCGTGACTC
CCAGGGCTGGGACATTATGTAGGAGCCACTTCATAAACATTTCTCTTACTCATCTTTTTATTCTGTTTTTGTGG
CCTTCTTTTTTGTGTTTCCCCCCCCGAAACAGAGTCTCGCTCTGTCACCCAGGCTAGAGTACAGTGGTGCAATCTCG
CCTCACTGCAACCTCCACCTCCCAGGTTCAAGTGATTCTTGTGCCTCAGCCTCCCGAGTAGCTGACATCCGCCAC
CAAGCCCAGCTAATT

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FIGURE 1889

MPGANYRAGAGAGAGARRPRGARDREEDGGGLEPAAVARDLLRGTSNMSFEELLELSQVGTKTYKQLVAGNSPK
KQASRPPIQNACVADKHRPLEMSAKIRVPFLRQVVPISKKVARDPRFDDLSGEYNPEVFDKTYQFLNDIRAKEKE
LKKHLSGEEHEKLQQLLQRMEEQEMAQQERKQQQELHLALKQERRAQAQQGHRPYFLKKSEQRQLALAEKFELK
RSKKLENFLSRKRRRNAGKDRRHPLSKE

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FIGURE 1890

GCTTGGCTGTGTTTATCTCGTTGGGGACTAAGGCGTCGGTTGGCGCGCAACGGGTTCTAGGCTGCAGGCAGCTCG
AGGACCCGCGGCCCCGCCCCGGCTCGGCCTGGCAGATAGCAGAGGCAGCAGGCCGTGCCGGGGGGGCATGTTGCT
GTAACCAAGTGGCCAGGGGATGTTACGGTGGACAGTGCACCTGGAGGGCGGGCCCCGAGGGTGAACCATGCTGC
AGTGGCTGTGCGGCATCGGGTATACTCCTTCGGGGGTTACTGCTCTGGTGAAGACTATGAGACACTGCGTCAGAT
AGATGTGCACATTTTCAATGCAGTGTCTTGCCTTGGACAAAGCTGCCCCGGTGAAGTCTGCCATCCGTGGGCA
AGCTCCTGTGGTACCCTACATGCGCTATGGACACTCAACCGTCCTCATCGACGACACAGTCCTCCTTTGGGGCGG
GCGGAATGACACCGAAGGGGCTGCAATGTGCTCTATGCCTTTGACGTCAATACGCACAAGTGGTTCACACCCCG
AGTGTGACGGACAGTTTCTGGGGCCCGGGATGGACATTGAGCCTGTGTCTTAGGCAAGATCATGTACATTTTGG
GGGCTACGAGCAGCAGGCGGACTGTTTTTCCAATGACATTCAAGCTAGATACCAGCACCATGACATGGACTCT
TATCTGTACAAAGGGCAGCCCTGCACGCTGGAGGGACTTCCACTCAGCCACAATGCTGGGAAGTCACATGTATGT
CTTTGGGGGCGCGTGCCGACCGCTTTGGGCCATTCCATTCCAACAATGAGATTTACTGCAACCGCATTTCGAGTCTT
TGACACCAGAAGTGAAGGCTTGGCTGGACTGTCCCCGACTCCAGTGTGCTGAGGGGCGCCGGAGCCACTCGGC
CTTTGGCTACAATGGGGAGCTGTACATCTTGGTGGTTATAATGCAAGGCTGAACCGGCACCTTCCATGACCTCTG
GAAGTTTAACTCCTGTGTCTTTACCTGGAAAAAGATTGAACCGAAGGGGAAGGGGCCATGTCCCCGCGGCGCCA
GTGCTGCTGTATTGTTGGTGACAAGATTGTCCTCTTTGGGGGTACCAGTCCATCTCCTGAGGAAGGCCTGGGAGA
TGAATTTGACCTTATAGATCATTCTGACTTACACATTTTGGACTTTAGCCCTAGTCTGAAGACTCTGTGCAAACT
GGCCGTGATTGAGTATAACCTAGACCAGTCTGTTGCTCATGATATCAGGTGGGAGCTGAATGCCATGACCAC
CAACAGCAATATCAGTCGCCCCATCGTCTCCTCCCATGGGTAGGAGGAAGTTTCTGCCACCTCCCCCTCCTGAGCC
TGCTGTATCTTCACTGCCCCTGCCCATCTGTACCCACCTGCTCCTTTGACCCCTGGACTTGGTATACCTCCAT
GTGGAGTTGTTGGGCGAGAGGTGTTCTCTGTGCTGTGAATTCAGTGGGGAGCTGTAGCGGGGTGGGGGCTAGGTT
CCTCCCCCTTGGGCCGAGGGCCCCCTTCCCCCTTGGTGCTCTGTCCCCATCCACCTCCTTTTCAGCTGCTCCTGGGC
CTCAGCTCTGCCCAGGGCCAGCCAGGTTCTGCTGGGAAGGGAAGGGAATGGGGAGAAGGGAGAAGCAAGCAGTGT
CTGAGCCTCAGGAGCTTCCCCCTCCCCCTTTGCCTATCCCCCTCCCCCTCTGCTTGAGCCTTGAGCCTTGACTGGGA
GCTGAAAGGAGTTGCAGCTGTTGGCATGAGACCTCCTTCTCCCCGTCTTGGGGAGGTGGGGACCAGCAGATAAAT
CCCACCCTTCTTGAGCTGTGCTGTACTCTGAAGTTCAGCCAGCTCAGATTTTATAAAAATTAATTAATAATCTC
CAAA

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FIGURE 1891

MLRWTVHLEGGPRRVNHA AVAVGHRVYSFGGYCSGEDYETLRQIDVHIFNAVSLRWTKLPPVKSAIRGQAPVVPY
MRYGHSTVLIDDTVLLWGGGRNDEGACNVLYAFDVNTHKWFTPRVSGTVPGARDGHSACVLGKIMYIFGGYEQQA
DCFSNDIHKLDTSTMTWTLIC TKGSPARWRDFHSATMLGSHMYVFGGRADRF GPFHSNNEIYCNRI RVFDTRTEA
WLD CPPTFVLPEGRRSHSAFGYNGELYIFGGYNARLNRHFHDLWKFN PVSFTWKKIEPKGKGPCPRRRQCCCI VG
DKIVLFGGTSPSP E E GLGDEFDLIDHSDLHILDFSPSLKTLCKLAVIQYNLDQSCLP HDIRWELNAMTTNSNISR
PIVSSHG

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FIGURE 1892

CCTTCAATGTGAAGCTAATATCTCCTATAGCATAGTTAATGTTTATTCAACAAATATTCATGCAGCGGAGTCAAG
AACACACCACGATGGCGGAGAAAGGAAGAGACGCCGAGCGGCCGAGTGCGGCCGAGCAAAGCCGGAGCCGGAGCG
GGGCCGAGGAGACGGGGCCGGGTCCGGACGGGCCGAGATGCCCTATAAACTGAAAAAGGAGAAGGAGCCCCCAA
GGTTGCCAAATGCACAGCCAAGCCTAGCAGCTCGGGCAAGGATGGTGGAGGCGAGAACTGAGGAGGCCAGCC
GCAGCCCCAGCCCCAGCCCCAGCCCCAAGCCAGTCTCAGCCACCGTCATCCAACAAGCGTCCCAGCAATAGCAC
GCCGCCCCCAGCAGCTCAGCAAAATCAAGTACTCAGGGGGGCCCCAGATTGTCAAGAAGGAGCGACGGCAAAG
CTCCTCCCGCTTCAACCTCAGCAAGAATCGGGAGCTGCAGAAGCTTCCTGCCCTGAAAGATTTCGCCAACCCAGGA
GCGGGAGGAGCTGTTTATCCAGAAGCTACGCCAGTGCTGTGTCTCTTTGACTTCGTGTCAGACCCACTCAGTGA
CCTCAAATTCAAGGAGGTGAAGCGGGCAGGACTCAACGAGATGGTGGAGTACATCACCCTAGCCGTGATGTTGT
CACTGAGGCCATTTACCTGAGGCTGTCAACATGTTTTTTCAGTGAACCTCTTCCGGACGCTGCCACCTTCATCGAA
TCCCACAGGGGCTGAGTTTGACCCAGAGGAAGATGAGCCACCCCTGGAAGCTGCTTGGCCACATCTCCAGCTCGT
GTATGAGTTCTTCTTACGTTTCTTTGAGTCTCCTGATTTCCAGCCAAACATAGCCAAGAAGTACATCGACCAGAA
GTTTGTACTTGCTCTCCTAGACCTATTTGACAGTGAGGATCCTCGAGAGCGGGACTTCCTCAAGACCATTTTGCA
TCGCATCTATGGCAAGTTTTTGGGGCTCCGGGCTTATATCCGTAGGCAGATCAACCACATCTTCTACAGGTTCTAT
CTACGAGACGGAGCATCACACGGGATTGCTGAGCTCCTGGAGATCCTGGGCAGCATCATCAATGGCTTTGCTCT
GCCCCTTAAAGAAGAGCACAAAGATGTTCTCATCCGTGTCTACTTCCCCCTTCAAGGTCAAGTCCCTGAGTGT
CTACCACCTCAGCTGGCATACTGTGTGGTACAATTCCTGGAGAAGGAGAGCAGTCTGACTGAGCCGGTAATTGT
GGGACTTCTCAAGTTTTTGGCCCAAGACCCACAGCCCCAAGGAGGTGATGTTCTTGAATGAGCTGGAGGAGATTCT
GGACGTCAATTGAACCTTCTGAGTTCAGCAAAGTGATGGAACCCCTCTTCCGCCAGCTGGCCAAGTGTGTCTCTAG
CCCCCATTTCCAGGTGGCAGAGCGTGCTCTCTATTACTGGAACAATGAGTACATCATGAGCCTGATAAGTGACAA
TGCTGCCCCGAGTCTTCCCCATCATGTTCCCTGCACTCTACAGGAACTCCAAGAGCCACTGGAACAAGACAATCCA
TGGACTGATCTATAATGCCCTGAAGTTGTTTATGGAATGAATCAGAAGCTGTTTGATGACTGCACACAACAATA
CAAGGCAGAGAAGCAGAAGGGCCGGTTCCGAATGAAGGAAAGGGAAGAGATGTGGCAAAAAATCGAGGAGCTGGC
CCGGCTTAATCCCCAGTATCCCATGTTCCGAGCCCCCTCCACCCTGCCCCCTGTGTACTCGATGGAGACAGAGAC
CCCCACAGCTGAGGACATCCAGCTTCTGAAGAGGACTGTGGAGACTGAGGCTGTTTCTAGATGCTAAAAGACATCAA
GAAGGAGAAAAGTGCTGCTGCGGAGGAAGTCGGAGCTGCCCCAGGACGTGTACACCATCAAGGCACTGGAGGCGCA
CAAGCGGGCGGAAGAGTTCCTAACTGCCAGCCAGGAGGCTCTCTGACCCCTCACGTTCTTACCACAGGGCCACAG
CCCACACAGCCCTGGGACACTGCCCTGGCCCTCCATACTCTGCTCCCTACTGGCTGTCTTGGGGGAAGGCAGCGC
CTCTCTAGCTACTCAAGGGAGGGGATGTGGGCACTTGAAGCAGGGACACCCACAGAATGGTCCCTCTTCTCCCC
AAAAGGTGTTTCATGCCTCCCTGTGGCTAGTACAGGCTGAGCACTAAGATGCTTAGTGCTCAGACAACCTGGGGAT
GCCTGTCCCCCTACCTGCTCCTCACCCACAGCTACCTGAGGCTGCTCTGAGAAGTACACACAGGAATACATACGCT
CCTCTATTCTTCCCTTCATCCTCATTGTAACGCCAGGTATCTCCCCTCCTCTCTCTCCCCTGCAGAGGCATGTAG
GGAACAGCAGGAGATTATTCTACCAAAGTTATGTCAAGCCCCATTGGTCCCAGAGTAGCTGAAGGGAAGCCAAC
CCCCCTGCAGCACAAATAGGCCCCCAGTCCCAGCCGTGTGCTGGCAGATAGGGTTGTATTATTTCTTCTTACCC
CATGCCTGACCAAGGGAGGTCAAAGGAGAAAAGTATAGGCTGTGGACAATAACTGATGAATATAGGGCCAGAT
GGACCAAGTGGGGCCGGGAGGGATGAATAAACACCCCTACCCCGTGCCCTGTCTTTGGTGAGCAGCAGCCCTGGG
GTCACAGACATGGAAGGGACCACCTGGGGCTGACTGCTTTTCTGTGCTGTTGGTTCCCAAACTAGAAAGAAGG
AAGCAGGGAGCGGTGCCCCAAGCATGGCTCCTGCCAACACCTATTTATTTCTTGTGCTATGCTGGGCAGG
CCTTCTCTGTCCCTTATAGGTACCTTGGAGGGGCCAGGGGCTGAGGAAGGCCGACCCAGGTTCAGGGGCGCA
GGCAGTGCGGCTTTTGGCTGTGTACATAGGGTGCTTTATTCTCCACAGAGTGATACATGCTAAGGTGGGTGGGC
TTGGACCGATGTCCCCATATGTACAGAACTGAATAAAGTGGGTCTCTG

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FIGURE 1893

MPYKLKKEKEPPKVAKCTAKPSSSGKDGGGENTEEAQPQPQPQPQQAQSQPPSSNKRPSNSTPPPTQLSKIKYS
GGPQIVKKERRQSSSRFNLSKNRELQKLPALKDSPTQEREELFIQKLRQCCVLFDFVSDPLSDLKFKEVKRAGLN
EMVEYITHSRDVVTEAIYPEAVTMFSVNLFRITLPPSSNPTGAEFDPEDDEPTLEAAWPHLQLVYEFFLRFLSPD
FQPNIAKKYIDQKFVLALLDLFDSEDPREDFLKTILHRIYGKFLGLRAYIRRQINHFYRFIYETEHNGIAEL
LEILGSIINGFALPLKEEHKMFLIRVLLPLHKVKSLSVYHPQLAYCVVQFLEKESLTPVIVGLLKFWPKTHSP
KEVMFLNELEEILDVIEPSEFSKVMEPLFRQLAKCVSSPHFQVAERALYYWNNYIMSLISDNAARVLPIMFPAL
YRNSKSHWNKTIHGLIYNALKLFMEMNQKLFDDCTQQYKAQKQGRFRMKEREEMWQKIEELARLNPQYPMFRAP
PPLPPVYSMETETPTAEDIQLLKRTVETEAVQMLKDIKKEKVLLRRKSELPQDVYTIKALEAHKRAEEFLTASQE
AL

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FIGURE 1894

GAATTCCGCCCAGACGCAGGCTTCTTCTCGGGTCTTGGTCCTGCATCCTCTCTCTCCCAGAGCCTCCGTTAGGGG
GTGGGAAAGGACTTTGCCATAGGTCGCTGAGGCCACCATCTGCTCTCTTACTGGCCAAGGGCGTAAAAAGATAGT
CTTCCCATTAGCTAGAGAGCAAACCCAGAAAGCCTATTGGTTGCGCCGTCCGCGGGCCTTGGTCCGCTTTGAAG
GCGGGCTGCGGCTGCGAGAGGAGGGCGGGCGGGAGGCTAGCTGTTGTCGTGGTTGCTCGGAGGCACGTGTGCAGT
CCCGGAAGCGGCGAGGGGAAACTGCTCCGCGCGCGCCGCGGGAGGAGGAACCGCCCGTCTTTAGGGTCCGGG
CCCGGCCGGGCCATGGATTCAATGCCTGAGCCCGCGTCCCGCTGTCTTCTGCTTCTTCCCTTGCTGCTGCTGCTG
CTGCTGCTGCTGCCGGCCCCGGAGCTGGGCCCCGAGCCAGGCCGGAGCTGAGGAGAACGACTGGGTTCGCCTGCCC
AGCAAATGCGAAGTGTGTAAATATGTTGCTGTGGAGCTGAAGTCAGCCTTTGAGGAAACCGGCAAGACCAAGGAG
GTGATTGGCACGGGCTATGGCATCCTGGACCAGAAGGCCTCTGGAGTCAAATACACCAAGTCGGACTTGCGGTTA
ATCGAAGTCACTGAGACCATTTGCAAGAGGCTCCTGATTATAGCCTGCACAAGGAGAGGACCGGCAGCAATCGAT
TTGCCAAGGGCATGTCAGAGACCTTTGAGACATTACACAACCTGGTACACAAAGGGGTCAAGGTGGTTGATGGACA
TCCCCTATGAGCTGTGGAACGAGACTTCTGCAGAGGTGGCTGACCTCAAGAAXCAGTGTGATGTGCTGGTGGAAAG
AGTTTGAGGAGGTGATCGAGGACTGGTACAGGAACCACAGGAGGAAGACCTGACTGAATTC

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FIGURE 1895

MDSMPEPASRCLLLLPLLLLLLLLLLPAPELGPSQAGAEENDWVRLPSKCEVCKYVAVELKSAFEETGKTKEVIGT
GYGILDQKASGVKYTKSDLRLIEVTETICKRLLIIACTRRGPAAIDLPRACQRPLRHYYTTWYTKGSRW

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FIGURE 1896

TGATGAAACTGTAACTTACAAGAAAAGGGCTGGGTTTTGAAAATAACACAGGCTCTAAAAACCCTAAGAAGCGGT
GCAACTTTTGGCAGGAATCGGGGTTAGCGGGACCTCAAGGGCTCACTGCGGCTAAGTGAACGCTGACTGGTCCTC
CAGCGTGAGCTAGAACAGACGTCTCTATGGTCAAGTAAACAGAGCGTGTGCTGTCTTCCCATGTGGTGGGGTTG
CGC**ATG**ATCAGTAGCTGCACCACTAGAAAGATGGCGGAGCAAGAGCAAAGAAAAATCCCTTTGGTTCCAGAAAAT
CTCCTGAAAAAGAGGAAGGCTTATCAAGCCCTCAAAGCCACCCAGGCAAAGCAGGCACTTTTGGCAAAGAAGGAG
CAGAAGAAAGGAAAAGGGCTCAGGTTTAAGCGACTGGAATCATTCTACATGATTCTGGCGGCAGAAACGTGAC
AAGGTGCGTCTCAGACGACTAGAAGTGAAACCTCATGCCTTGAATTGCCAGATAAACATTCTTGGCCTTTGT
GTACGCATCGAAAGGATTGACGGCGTGAGTTTACTGGTGCAGAGAACCATTGCAAGACTTCGCCTAAAGAAAATT
TTTAGTGGTGTCTTTGTAAAAGTCAACCCCCAGAATCTAAAAATGCTGCGTATAGTGGAACCTTATGTGACCTGG
GGATTTCCAAATCTGAAGTCTGTCCGAGAACTCATTTTGAAACGTGGACAAGCCAAGGTCAAGAATAAGACCATC
CCTCTGACAGACAATACAGTGATTGAGGAGCACCTGGGGAAGTTTGGCGTCATTTGCTTGGAAAGACCTCATTCAT
GAAATTGCCTTCCCAGGGAAGCATTTCCAGGAGATCTCATGGTCTTGTGCCCCTTTCCACCTCTCAGTGCCCCGT
CATGCTACCAAAAATAGAGTGGGCTTCCTCAAGGAGATGGGCACACCTGGCTATCGGGGTGAACGCATCAATCAG
CTCATCCGTCAGCTGAACT**TAG**ACCCAGGTGCCAAACTGCGGTAAATTTTTTATCAGTGAAGTGGAAGCATGTGTT
TTGTTTTGGAATTTTTATCAAGTATCTTCAGAGAAGATTATTCCTGCTTTATCTTCAGAACTGGAAAGGGTC
AAAGAAAAGACAGTAGCTGGCCGGTCTGTGGTGGCTCATGCCTGTAATCCCAACACTTAGGGAGGCTGAGGTGGGC
AGATCACCTGAGGTGGGAGTTTCGAGACCAGCCTGACCAACATGGAGAAATGCCATCTCTACTAAAAATACAAAA
ATTAGCCGGGCATGGTGGCACGTGCCTGTAATCCCAGCTACTCAGGAGGCTGAGGCAGGAGAATCGCTTGAACCT
GGGAGGTGGAAGTTGCAGTGAGCTGAGATCACGCCATTGCACTCCAGCCTGGGCAACAAGCGAAACTCTGTCTCA
AAAAAAAAGAAAAGACAGTAGCATATGTTTCATGTCAAGCACCTCTCATCACAGTCGAGTTCCAAGGAAAAATTCC
AGTGTTTTCTGCATTGGGTGCTGTGTCTGAAATCGGCACATTCCATGGAGGAAGGAGTCCTGCTTTGTTGCA
TGTATCCTAGGGTTTAAATGTTGGTAAATGAGTCACTCTAGCATTTGTAGAAGGCTCCCTGAGACTCCTGCAGCAG
TCGACCAAGCCCAAGGACATAATTGAATCTGGAGAGTCTGGGGCCTTGTTTTGAAAAGACTTGAAATACACAT
AGGAAGAAAGGCATAAAAATAAATGTTCACTTGTCTCTGC

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FIGURE 1897

MISSCTTRKMAEQEQRKIPLVPENLLKKRKAYQALKATQAKQALLAKKEQKKGKGLRFKRLESFLHDSWRQKRDK
VRLRRLEVKPHALELPDKHSLAFVVRIERIDGVSLLVQRTIARLRLKKIFSGVFVKVTPQNLKMLRIVEPYVTWG
FPNLKSVRELILKRGQAKVKNKTIPLTDNTVIEEHLGKFGVICLEDLIHEIAFFGKHFEISWFLCPFHLSVARH
ATKNRVGFLKEMGTPGYRGERINQLIRQLN

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FIGURE 1898

GC GCCTGTCAGGGAAGCGGCGCGCGCGCGGGCGGCGGGCTGGGGATCCGCCGCGCAGTGCCAGCGCCAG
CGCCAGACCCGCGCCCCGCGCTCTCCGGCCCGTCGCCTGCCTTGGGACTCGCGAGCCCGCACTCCCGCCCTGCCT
GTTCGCTGCCCCAGTATGAGAGCTGCTGTGTTGCGAAGGCACCCGGCACGCGCCCCGGGCGGGCCGGACCCGCGG
CTGCTGGGGGACCAGCGTGTCTGTCAGAGCCTGCTCCGCCTGGAGGAGCGCTACGTACCCCGCGCCTCCTACTTC
CAGTGCGTGCAGCGGGAGATCAAGCCGCACATGCGGAAGATGCTGGCTTACTGGATGCTGGAGGTATGTGAGGAG
CAGCGCTGTGAGGAGGAAGTCTTCCCCCTGGCCATGAACTACCTGGATCGCTACCTGTCTTGCGTCCCCACCCGA
AAGGCGCAGTTGCAGCTCCTGGGTGCGGTCTGCATGCTGCTGGCCTCCAAGCTGCGCGAGACCACGCCCCTGACC
ATCGAAAACTGTGCATCTACACCGACCACGCTGTCTCTCCCCGCCAGTTGCGGGACTGGGAGGTGCTGGTCCTA
GGGAAGCTCAAGTGGGACCTGGCTGCTGTGATTGCACATGATTTCTGGCCTTCATTCTGCACCGGCTCTCTCTG
CCCCGTGACCGACAGGCCTTGGTCAAAAAGCATGCCAGACCTTTTTGGCCCTCTGTGCTACAGATTATACCTTT
GCCATGTACCCGCCATCCATGATCGCCACGGGCAGCATTGGGGCTGCAGTGCAAGGCCTGGGTGCCTGCTCCATG
TCCGGGGATGAGCTCACAGAGCTGCTGGCAGGGATCACTGGCACTGAAGTGGACTGCCTGCGGGCCTGTCAGGAG
CAGATCGAAGCTGCACTCAGGGAGAGCCTCAGGGAAGCCTCTCAGACCAGCTCCAGCCAGCGCCCAAAGCCCC
CGGGGCTCCAGCAGCCAAGGGCCAGCCAGACCAGCACTCCTACAGATGTCACAGCCATACACCTGTAGCCCTGG
AGAGGCCCTCTGGAGTGGCCACTAAGCAGAGGAGGGGCCGCTGCCACCCACCTCCCTGCCTCCAGGAACACACC
ACATCTAAGCCTGAAGGGGCGTCTGTTCCCCCTTCACAAAGCCCAAGGGATCTGGTCCTACCCATCCCCGAGTG
TGCACTAAGGGGCCCCGGCCAGCCATGTCTGCATTTCCGTGGCTAGTCAAGCTCCTCCTCCCTGCATCTGACCAGC
AGCGCCTTTCCCAACTCTAGCTGGGGGTGGGCCAGGCTGATGGGACAGAATTGGATACATACACCAGCATTCTTT
TTGAACGCCCCCCCCCACCCTGGGGGCTCTCATGTTTTCAACTGCCAAAATGCTCTAGTGCCTTTCTAAAGGTGT
TGTCCCTTCTAGGGTTATTGCATTTGGATTGGGGTCCCTCTAAAATTTAATGCATGATAGACACATATGAGGGGG
AATAGTCTAGATGGCTCCTCTCAGTACTTTGGAGGCCCTATGTAGTCCGTGCTGACAGCTGCTCCTAGAGGGAG
GGGCCTAGGCCTCAGCCAGAGAAGCTATAAATTCCTCTTTGCTTTGCTTTCTGCTCAGCTTCTCCTGTGTGATTG
ACAGCTTTGCTGCTGAAGGCTCATTTTAATTTATTAATTGCTTTGAGCACAACTTTAAGAGGACATAATGGGGGC
CTGGCCATCCCAAGTGTTGGTAACCCTGGTGGTTGCTGTTTTCTCCCTTCTGCTACTGGCAAAGGATCTTT
GTGGCCAAGGAGCTGCTATAGCCTGGGGTGGGGTCATGCCCTCCTCTCCCATTTGTCCTCTGCCCCATCCTCCAG
CAGGGAAAATGCAGCAGGGATGCCCTGGAGGTGGCTGAGCCCCTGTCTAGAGAGGGAGGCAAGCCCTGTTGACAC
AGGTCTTTCTAAGGCTGCAAGGTTTAGGCTGGTGGCCAGGACCATCATCCTACTGTAATAAAGATGATTGTGA
AATAAACTGGCTTTGGCTTCTTGGAIAA

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FIGURE 1899

MELLCCEGTRHAPRAGDPRL LGDQRVLQSLRL EERYVPRASYFQCVQREIKPHMRKMLAYWMLEVCEEQRCEE
EVFPLAMNYLD RYLSCVPTRKAQLQLLGAVCM LLASKLRETTPLTIEKLCIYTDHAVSPRQLRDWEVLVLGK LKW
DLAAVIAHDFLAFILHRLSLPRDRQALVKKHAQTFLALCATDYTFAMYPPSMIATGSIGAAVQGLGACSMGDEL
TELLAGITGTEVDCLRACQEQIEAALRESLREASQTSSSPAPKAPRGSSSQGPSQTSTPTDVTAIHL

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FIGURE 1900

CACCGCGCAAGCGCATCCTGGCCTTTCTTCAGTCCCCACGTGCGATCCTTCCCGGCAACTTTTTTCGAGAAAAATG
CCCAAATTCAAGGCGGCCCCGTGGGGTGGGGGGTCAGGAAAAACATGCGCCCTGGCCGATCAGATCCTGGCTGGG
AATGCGGTGCGGGCGGGGGTCCGGGAGAAGCGGCGGGGTGCGGGACAGGAGAAGCGGAGGAAGAGTATGTGGGG
CCCCGGCTGAGCCGACGGATTTTGCAGCAAGCACGGCAGCAACAGGAGGAACTCGAGGCCGAGCATGGGACTGGG
GACAAGCCCCGCGGCGCCGCGGGAACGCACCACGCGGCTGGGTCCAAGAATGCCTCAGGATGGATCAGATGACGAG
GACGAGGAGTGGCCCCACCCTGGAGAAGGCTGCCACAATGACAGCAGCGGGCCATCATGCAGAGGTGGTTGTGGAC
CCTGAGGATGAGCGTGCCATAGAGATGTTCAATGAACAAGAACCCCTCCTGCCAGGCGCACCCCTGGCTGACATCATC
ATGGAGAAGCTGACTGAGAAGCAGACAGAGGTTGAGACAGTCATGTCAGAGGTGTGGGGCTTCCCTATGCCCCAG
CTGGACCCCCGGGTCTAGAAGTGTACAGGGGGGTCCGGGAGGTATTATCTAAGTACCGCAGTGGAAGAACTGCCC
AAGGCATTTAAGATCATCCCTGCACTCTCCAACCTGGGAGCAAATCCTCTACGTCACAGAGCCGGAGGCCTGGACT
GCAGCTGCCATGTACCAGGCCACCAGGATTTTTGCCTCTAACCTGAAGGAACGCATGGCCCAGCGCTTCTACAAC
CTTGTCCTGCTCCCTCGAGTACGAGATGACGTTGCTGAATACAAACGACTCAACTTCCATCTCTACATGGCTCTC
AAGAAGGCCCTTTTCAAACCTGGAGCCTGGTTCAAAGGGATCCTGATTCCACTGTGCGAGTCTGGCACTTGTACC
CTCCGGGAAGCCATCATTGTGGGTAGCATCATCACCAGTGCTCCATCCCTGTGTTGCACTCCAGTGCGGCCATG
CTGAAAATTGCTGAGATGGAATACAGCGGTGCCAACAGCATCTTCCTGCGACTGCTGCTGGATAAGAAGTATGCA
CTGCCTTACCGGGTGCTGGATGCCCTAGTCTTCCACTTCCCTGGGGTTCCGGACAGAGAAGCGTGAAGTGCCTGTG
CTGTGGCACCAGTGCTCCTGACTTTGGTCCAGCGCTACAAGGCCGACTTGGCCACAGACCAGAAAGAGGCCCTC
TTAGAACTGCTCCGGCTGCAGCCCCATCCACAGCTATCGCCCGAAATCAGGCGTGAGCTTCAGAGTGCAGTCCCC
CGCGATGTGGAAGATGTTCCCATCACCGTGAGTGAAGGAAAAACAGTCAGCTGTCTGGCCAAAGGGGTTTGAAG
GACACCAAGACCCCGTTGGTGACTGAAGATGACACTGAGCTTTAATGGCTGAAGACCCAGATCAGGGCAGTGAC
AGATCACAGGGACATCTGTGGCTCCAGTCCAGGACAGGAAGGACTGAGGGTCTGGCTGGTTCCCTCTTCCATT
TAGGCCCTTATCCCTGTTTGTAGTTCTGAGAGCCAACTTGAGATACCATATGCTAGCATTCCAGTCCCCAGCTGGG
GCTTGGTGTGAGTACTTTTTCTATGGCTATTGTGTGAGGTCACTGTGGATAAAGGCAAAGACAGATATTTATTGA
AAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1901

MNKNPPARRTLADIIMEKLTEKQTEVETVMSEVSGFMPQLDPRVLEVYRGVREVL SKYRSGKLPKAFKIIPALS
NWEQILYVTEPEAWTAAAMYQATRIFASNLKERMAQRFYNLVLLPRVRDDVAEYKRLNFHLYMALKKALFKPGAW
FKGILIPLCESGTCTLREAIIVGSIITKCSIPVLHSSAAMLKIAEMEYSGANSIFLRLLLDKKYALPYRVLDALV
FHFLGFRTEKRELPVLWHQCLLTLVQRYKADLATDQKEALLELLRLQPHQLSPEIRRELQSAVPRDVEDVPITV
E

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FIGURE 1902

CTTGGGGTGGGGACCGGGTGAGGGGCTGACGGCAGAGTCGGTCCAGAACTGCCCGGACAGCGACGCACAGCGAG
GAGCCAAAATGGAAGAGGGTGCAAGTCCCCTCCTGGGGCCCCAGACGCCCCCTCCTTTCTTGCTGCCTGGAGCAG
GGGCAGTGCTGTTAGTGGCTACTCCTGGTGTGAACAGCCCATCCTGGCCACCTTCCACAGGAAACCTGACCTGAA
GGACAGAAGAGGAAGGAAGCAGGCTTTGCCACAAATGTCAGTGCAGAACTCTGGCTGGCCCCACCAAGAAGACAG
CCCCAAGCCCCAGGATCCAGGTCCACCAGCCAACTCAGACAGTGACTCAGGCCACCTGCCGGGGGAGGACCCTGA
GGATACCCATGCTCAGGAATTCTGTCTCTGCACCTGCTTAGAACATGGGGTTTTGACTTTAAACTCATTACAT
GAGTATTCATTATCTCTCCTAGGGGGTCTGTATTGTCAAACCAGACTCTAGGGGCTTTGGCCCCAAGGCGTGAAG
GGGGTTAAGAAGGGAAAGCATAAGAAGGGAAGCTGTTTTGGGGTGTGGGGCCTCCCCAGCCTCCCTCAAGGAAGA
CCACACATGCAGGCATCAGTCAGCTATCCTTGCACTCAGTGAGGATCTGCAAGGAGGACCCTCCCAAATGGAGGG
CATGCTTAGAAGCTGCTCTAGATTGGAGAAGAGGTGGCAATGATGAGGGGGAAAGAAGGAGAAAGGAAAGAAAA
CCTAGTTTCACTCCTCCCCTTCTTCCATGTCTCCTCAGGGTCTTGCACTTCTGAGCTTGGGTTCCCTTTGCCTGG
ACACCAACCAAGCCCCCAACTGGACTGGACTTCAGACCCCTCCTGCAGCAACTCCCTCCGCAGGACATTGATGAGC
GCTACTGCCTGGCCCTTGGGGAGGAGGAGCGGGCCGAGCTGCAGCTCTTCTGTGCCAGGCGGAAGCAGGAAGCCC
TGGGACAGGGGGTAGCCCGCTGGTACTTCCCAAGCTTGAAGGACACACCTGTGAGAAGTGTAGGGAGTTGCTGA
AGCCAGGGGAGTACGGAGTGTGTCAGCCCCGGGCAGGGGAACAGCGTGTGGCACCAGCCTTGCTTTGCCTGCC
AGGCCTGTGGCCAGGCCCTGATAAACCTCATCTACTTCTACCATGATGGACAACCTCTACTGCGGCCGTATCATG
CAGAGTTGCTGCGCCCGCTGCCCCGGCTTGTGACCAGCTGATCTTCTCCTGGCGCTGCACCGAGGCGGAGGGAC
AGCGCTGGCATGAGAACCACCTTCTGTTGCCAGGACTGCGCCGGGCTCTGGGCGGGGGACGTTATGCCCTGCCTG
GGGGAAGCCCCTGCTGCCCCAGCTGCTTCGAGAACCGCTACTCGGATGCAGGCTCGAGCTGGGCCGGGGCACTGG
AAGGGCAGGCATTCTTGGAGCGCCCCACCGCACCCCCCAGACCAAGCCTCGGGGCCGCGAGCTCTCACCGCG
CATCCCTGGCCGGAGCGTTCCAAGGGCCGCCCCGAACCCACCCGCGCCGCGGTGCGGGTTGCGGCGCCAGACTCC
CTCCCAGGCGCGGGAGGCGGACGCCCCCTCTGGTGGAGGCGGGGACCCTGGCGAGGACTCTCGGCGGCGGCGGCGG
CGCGCACGGCCAGGGGCTGGGCGGGGCGGGAGGCTGGGCCTACCCCCACTAGCTGCGGTGTAGTTCAGCTCC
GCGGCTCTGAGACCAGCGTTTCCGACCCGCCCCGAACAGGGGAGACTGGACTCGACCGAACTGAAGGAAGGGAC
CAAACCTCGGTGAACCTCTGCAACCTCTCCCGAACACTCCTTGCTGCTGCCGGCGGTTCCAGCCTGCAAACTCAG
AGGGGGCTGCCTGGATCCAGTCCCCAGCAGGAGAACCGACCTGGGGACAAAGCGGAGGCACCCAAAGGGCAGGAG
CAATGCCGCTTGAGACTATTCTGTATCCCAAGGACACCCCTTTCTCCACCTGCTCCTCCTCTGACTCGGAA
CCTGAAGGATTTTTCTTAGGCGAGCGCCTTCCCCAGTCTTGAAGACCCCCGGAAGCCTCCAAGCAGAGGACAGC
AACGCCTCTAAGACGCACTGCACCATGTGCTAGTGGCGCAGCTCAGAGAGGGGATGTGAGTGGGAGGAAAGGGGT
CTGTAAAGCGGGGAGAACAAGGCTAGCCTCCCCCTAACAATCCTAGACTGAGACGCAGTCAGGCGCACGCCCCGAA
GAGGCGGCGAGGTGACAAGTTTGGAGTGCGCCCCCTTCACTACTGCGCGTTCTAAGACTTTTGGCGGAGACTTTC
TTGGCAAAACCCATTCCCCAAAGCTACGCTTCCCCTGCTGAGATAGCCCCTACCCCCACCTCCACAGGCTGGGAC
AGCCCCGTCCCCACCATCCTCCTCCCAAGCCAATTAAATGATCACAGCACGCGTGACAGTTACCGGCTGGAGAGC
CGGAGGTGGGACCGGGAGCAGGGGACCGTAGAACCGGGCCGCGCTCCTCCCCTCCTAGAGTTCTGTGGAGGCGCAG
CAGAGGGCCGTCCCTCTTCCGGATGTGCGACTAAGCGAACAGCGCCCCCACTGCCGGCCGGTAGCAGCCGGAAGT
GCCAGACCGGAGGTGCGTCATTACCGGCGACGCCGATACGGTTCCCTCCAGCGAGGCCCATGCGAAGCTTTCCAC
TATGGCTTCCAGCACTGTCCCGGTGAGCGCTGCTGGCTCGGCTAATGAAACTCCCGAAATACCGGACAACGTGGG
AGATTGGCTTGGGGCGTCTACCGCTTTGCCACTGATAGGAATGACTTCCGGAGGAACCTTGATACTAAATTTGGG
ACTCTTTGCTGCGGGAGTTTGGCTGGCCAGGAACCTTGAGTGACATTGACCTCATGGCACCTCAGCCAGGGGTGTA
GCCAAGTAGTTCTAATGCCACCTGTCGTCTTATCATCTGATTGCAGACAAATGGAATCCTGTGCTGAACCCGAAT
CTTCCAAAAACAGCCTACAATCTGTGACCACCACAAGATGTGCCCTGATGGCAGCTGAAGTTTGATTGATGAG
GCACTTTTCTTCCCCTTCCCTGCCITAGTTTCTTTTGTTCCTTGAGTCCACGCAGAATTCCATTCTCTGGTCAGC
AGACAGGCTTAAGCTAAAGTATTGCCTCTATTCTGTAAAGTTCTGTACATAGTTCCCAAGCTTCTGCAGGGGGTG
ATTTTTGCTCTTGTCTGAGAAATAACAGTGCTGTTTTAAAAAACATTTGAAATAAATACCGCACACAAAGGAAA
AAAAAAAAAAAAAAAA

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FIGURE 1903

MSPQGPAVLSLGSCLDTNQAPNWTGLQTLQQLPPQDIDERYCLALGEEERAELQLFCARRKQEALGQGVARLV
LPKLEGHTCEKCRELLKPGEYGVFAARAGEQRCWHQPCFACQACQALINLIYFYHDGQLYCGRHHAELLRPRCP
ACDQLIFSWRCTEAEGQRWHENHFCCQDCAGPLGGGRYALPGGSPCCPSCFENRYSDAGSSWAGALEGQAF LGAP
PPHPPDPSLGARSSHRASLAGAFQGPPEPTPRRGRGCGARLP RRRGRRTPSGGGGGPWRGLSAAAAARTAQGLGG
AGGWASPP LAAV

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FIGURE 1904

CTAGTTAAGCGGCACAGGGCCGAGGCGTAGTGTGGGTGACTCCTCCGTTCCCTTGGGTCCCGTCGTCTGTGATAC
TGCAGTTCAGCCATGGCAGAACC GCAGCCCCGTCCGGCGGCCTCACGGACGAGGCCGCCCTCAGTTGCTGCTCC
GACGCGGACCCAGTACCAAGGATTTTCTATTGCAGCAGACCATGCTACGAGTGAAGGATCCTAAGAAGTCACTG
GATTTTATACTAGAGTTCTTGGAAATGACGCTAATCCAAAAATGTGATTTTCCATTATGAAGTTTCACTCTAC
TTCTTGGCTTATGAGGATAAAAATGACATCCCTAAAGAAAAAGATGAAAAAATAGCCTGGGCGCTCTCCAGAAAA
GCTACACTTGAGCTGACACACAATTGGGGCACTGAAGATGATGCGACCCAGAGTTACCACAATGGCAATTCAGAC
CCTCGAGGATTCGGTCATATTGGAATTGCTGTTCCCTGATGTATACAGTGCTTGTAAGGTTTGAAGAACTGGGA
GTCAAATTTGTGAAGAAACCTGATGATGGTAAAATGAAAGGCCTGGCATTATTCAAGATCCTGATGGCTACTGG
ATTGAAATTTGAATCCTAACAAAATGGCAACCTTAATGTAGTGCTGTGAGAATTCTCCTTTGAGATTTCAGAAG
AAAGGAAACAATGTGATTCAAGATATTTACATACCAGAAGCATCTAGGACTGATGGATCACTGTCCCGATTCAA
TTATTCTTCAGTCCATTTCCCCTTCCTATTTTCAGCTGTTCCCTTTTACCTAACTGTTTCAGTCATTCTGGTTTTCA
AGCAGTGCTTTATCTCATGTCTTGAATATAGTTGTGTAACCTTTATTTTTTAGGTAATAATTAGAACAGTTCCCT
TCAGAGGCTGCATTTGCCTTCTTCGCCACCTAAATATTACTTCCCTTCAAATCTGCCTTTGAATCATCATTTTT
AAAAAAAAAATTAACATGTTTTTGTGTAGTTATCTTCTGGGGTTTCAATTCCTCAGAAACAACTTTTTTCACAAC
GGAAAGGAAAGAACAAGTGTCTTTCAGTAAAGTACAAAGTGTATTTTTACAAAAGAGTAGGTACTCTTGAG
AGCAATTCAAATCATGCTGACAAGGATACTGATAGAAAAAGTGATTTCTTCTTATTATAAAGTACATTTAAAGTT
CAAGGACTAACCTTATTTATTGGGAAAGGGAGGAGGAAGGAAATGATATGGTACCCAGACACTGGGCTAGGCT
GCAACTTTATCTCATTTAATACTCCAGCTGTCTGATGTGAGAAAGAAAGCAGGCTAGGCATGTGAAATCACTTTCA
TGGATTATTAATGGATTTAAGAGGGCATCAATCAGCTCAACTCAAGATTTTCATAATCATTTTTAGTATTTAGATT
GTGCCTCAAAGTTGTAGTACCTCACAATACCTCCACTGGTTTCCCTGTTGTAACCTTCAGTGAGTTTGACCAT
TGTGCTCTTGGCTCTTGGGCTGGAGTACCGTGGTGAGGGAGTAAACACTAGAACTTTTAGTACAAAAGTCTCT
AGGGACACCTGGTGATTCCCTACACAAGTGATGTTTATATTTCTCATAAAGAGTCTTCCCTATCCCAAGGTCTTCA
TGATGCCAGTAGCCATATATGATAAATTATGTTTCAGTGATAACTTAGTTATCAGAAATCAGCTCAGTGGTCTTCC
CCGCCATGATTACATTTGATGAGTTTTTAAAAATCAAAGTGATTTTGAAAATCTCTAATGGCTCAGAAAATAAA
AACATCCAGTTTGTGGATGACTATATTTAGATTTCTCTAGACTCTAGTGGAAGACCTTTGGAAAGGCCATGCCAA
CCGTGCTTGTACTGCTAGAAAGCACTTTATGTTTCCTTTTTGGGTGAAATGGATTTATGTGAGTGCTTTAAACAA
TAGCAATACTTATAGACTGAAATAAAATGAACTTCAAATAAG

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FIGURE 1905

MAEPQPPSGGLTDEAALSCCSDADPSTKDFLLQQTMLRVKDPKKSLEDFYTRVLGMTLIQKCDFFIMKFSLYFLAY
EDKNDIPKEKDEKIAWALSRKATLELTHNWGTEDDATQSYHNGNSDPRGFGHIGIAVPDVYSACKRFEELGVKEV
KKPDDGKMKGLAFIQDPDGYWIEILNPNKMATLM

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FIGURE 1906

ATGGGAGCTTCGGACCCGGAAGTGGCGCCCTGGGCTCGCGGCGGTGCCGCGGGGATGGCGGGAGCCGGAGCTGGA
GCCGGAGCTCGCGGCGGAGCGGCGGCGGGGTCGAGGCTCGAGCTCGCGATCCACCGCCCGCGCACCGCGCACAT
CCTCGCCACCCTCGGCCTGCGGCTCAGCCCTCGGCCCCGAGGATGGATGGCGGGTCAGGGGGCCCTGGGGTCTGGG
GACAACGCCCCGACCACTGAGGCTCTTTTCGTGGCACTGGGCGCGGGCGTGACGGCGCTCAGCCATCCCCTGCTC
TACGTGAAGCTGCTCATCCAGGTGGGTTCATGAGCCGATGCCCCCACCCTTGGGACCAATGTGCTGGGGAGGAAG
GTCCTCTATCTGCCGAGCTTCTTCACCTACGCCAAGTACATCGTGCAAGTGGATGGTAAGATAGGGCTGTTCCGA
GGCCTGAGTCCCCGGCTGATGTCCAACGCCCTCTCTACTGTGACTCGGGGTAGCATGAAGAAGGTTTCCCTCCA
GATGAGATTGAGCAGGTTTCCAACAAGGATGATATGAAGACTTCCCTGAAGAAAGTTGTGAAGGAGACCTCCTAC
GAGATGATGATGCAGTGTGTGTCCCGCATGTTGGCCCCACCCCTGCATGTCAATGCGCTGCATGGTCCAG
TTTGTGGGACGGGAGGCCAAGTACAGTGGTGTGTGAGCTCCATTGGGAAGATTTCAAAGAGGAAGGGCTGCTG
GGATTCTTCGTGGATTAAATCCCTCACCCTCCTGGGCGATGTGGTTTTCTTGTGGGGCTGTAACCTGCTGGCCAC
TTCATCAATGCCTACCTGGTGGATGACAGCTTCAGCCAGGCCCTGGCCATCCGGAGCTATACCAAGTTCGTGATG
GGGATTGCAGTGAGCATGCTGACCTACCCCTTCCTGCTAGTTGGCGACCTCATGGCTGTGAACAACCTGCGGGCTG
CAAGCTGGGCTCCCCCTTACTCCCCAGTGTTCAAATCCTGGATTCACTGCTGGAAGTACCTGAGTGTGCAGGGC
CAGCTCTTCCGAGGCTCCAGCCTGCTTTTCCGCCGGGTGTCATCAGGATCATGCTTTGCCCTGGAGTAACTGAA
TCATCTAAAAAACACGGTCTCAACCTGGCCACCGTGGGTGAGGCCTGACCACCTTGGGACACCTGCAAGACGACT
CCAACCCAACAACAACCAGATGTGCTCCAGCCAGCCGGGCTTCAGTTCCATATTTGCCATGTGTCTGTCCAGAT
GTGGGGTTGAGCGGGGGTGGGGCTGCACCCAGTGGATTGGGTACCCGGCAGACCTAGGGAAGGTGAGGCGAGGT
GGGGAGTTGGCAGAATCCCCATACCTCGCAGATTGCTGAGTCTGTCTTGTGCAGAGGGCCAGAGAATGGCTTAT
GGGGGGCCAGGTTGGATGGGGAAAGGCTAATGGGGTCAGACCCACCCCGTCTACCCCTCCAGTCAGCCAGCGC
CCATCCTGCAGCTCAGCTGGGAGCATCAATCTCCTGCTTTGTACATAGGGTGTGGTCCCCTGGCACGTGGCCACC
ATCATGTCTAGGCCTATGCTAGGAGGCAAATGGCCAGCTCTGCCTGTGTTTTTCTCAACACTACTTTTTCTGATA
TGAGGGCAGCACCTGCCTCTGAATGGGAAATCATGCAACTACTCAGAATGTGTCCTCCTCATCTAATGCTCATCT
GTTTAATGGTGATGCCTCGCGTACAGGATCTGGTTACCTGTGCAGTTGTGAATACCCAGAGGTTGGGCAGATCAG
TGTCTCTAGTCCTACCCAGTTTTAAAGTTCATGGTAAGATTTGACCTCATCTCCCGCAAATAAATGTATTGGTGA
TTTGGAATAAAAAA

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FIGURE 1907

MGASDPEVAPWARGGAAGMAGAGAGAGARGGAAAGVEARARDPPPAHRAHPRHPRPAAQPSARRMDGGSGGLGSG
DNAPTTEALFVALGAGVTALSHPLLYVKLLIQVGHEPMPPTLGTINVLRKVLVLP SFFTYAKYIVQVDGKIGLFR
GLSPRLMSNALSTVTRGSMKKVFPPDEIEQVSNKDDMKTSKKVVKETS YEMMMQCVSRMLAHPLHVISMRCMVQ
FVGREAKYSGVLSSIGKIFKEEGLLGFFVGLIPHLLGDVVFLWGCNLLAHFINAYLVDDSF SQALAIRSYTKFVM
GIAVSMLTYPFLLVGDLMAVNNCGLQAGLPPYSPVFKSWIHCWKYLSVQGQLFRGSSLLFRRVSSGSCFALE

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FIGURE 1908

TGTTCTTGAGCCCAGCTTCTTCTCGTCTCCACCCCAGCTTCCCGGCATTGGAAGAAGGGACCGTCCTCTTCCTT
GTCTTGGCCACCCAAATCCTGGTATCGAAAGGGTTGAACGGACCGGAAGTGTGCAGCAGCGACGGGTCCCCAGCT
AATCGACGCCGGAAGTAGCAATTACTAGACAAGCATTCCGCCGCCGGCTTCGCTATGGCGGCAATTCCCCCAGAT
TCCTGGCAGCCACCCAACGTTTACTTGGAGACCAGCATGGGAATCATTGTGCTGGAGCTGTACTGGAAGCATGCT
CCAAAGACCTGTAAGAACTTTGCTGAGTTGGCTCGTCGAGGTTACTACAATGGCACAAAATTCCACAGAATTATC
AAAGACTTCATGATCCAAGGAGGTGACCCAACAGGGACAGGTCGAGGTGGTGATCTATCTATGGCAAACAGTTT
GAAGATGAACTTCATCCAGACTTGAAATTCACGGGGGCTGGAATTCTCGCAATGGCCAATGCGGGGCCAGATACC
AATGGCAGCCAGTTCTTTGTGACCCCTCGCCCCACCCAGTGGCTTGACGGCAAACACACCATTTTTGGCCGAGTG
TGTCAGGGCATAGGAATGGTGAATCGCGTGGAATGGTAGAAACAACTCCCAGGACCGCCCTGTGGACGACGTG
AAGATCATTAAAGGCATACCCTTCTGGGTAGACTTGCTACCCCTCTTGAGCAGCTCTTCTGAGATGGCCCCAGTGAA
CCAGCTTCTAGATGACATAGAATGACATGTAATGCTAAATTTTCAATTTTGGCTTTGCAAGTCATGAAGCTTAGGAG
GCCTGGCATCTTGGGTGAGTTAGAGATGGAAGTACATTTTAAATAGGATGCTTCTTTTCTCTTCCCCCAGTGCCTA
GGTTGCCAGAGCATTTCACAAATGCCCTGTTTTATCAATAGGTGACTACTTACTACACATGAACCATAATGCTG
CTTCTTGTGCATGTCTGCTCTGATATACGTCGAACAATGTAGCAGCCACTGTCATTTCTCAGTGGTTTTGCCTAA
CCAAACTTCTTCTTAAGGAGATTTATATTCTGGCCTACACAGCAGTCCTTGATGGCTGACAGCCACAGAATTCCA
AACCAAGTAGTGTCTGTCAGCCCTCTTAACCTCTGTGCACGCCCTATTTTCAGTCTTTTACATTTGTTCTTCTAGGG
AATGTATGCATCTCTATATATATTTTCCCTCTCAAACCCAGAACATCAACAGTGCTGTTTCTGACACTTCAGACA
TCCCACGCAAAGCCACATTGAATTTTTGCCAAATGAAAAACACATCCAACAATCAAGTTTCTAAGAAGGTGTCAA
GTGGGGAATAATAATAATGTATAATAATCAAGAAATTAGTTTATTAAAAGGAAGCAGAAGCATTGACCATTTTTT
CCCAGAGAAGAGGAGAAATCTGTAGTGAGCAAAGGACAGACCATGAATCCTCCTTGAGAAGTAGTACTCTCAGAA
AGGAGAAGCGCCACTCAAGTTCTTTTAACCCAAGACTTTAGAGAAATTAGGTCCAAGATTTTTATATGTTTCAGTT
GTTTATGTATAAAAAATAACTTTCTGGATTTTGTGGGGAGGAGCAGGAGAGGAAGGAAGTTAATACCTATGTAATA
CATAGAACTTCCACAATAAAATGCCATTGATGGTTGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1909

MAAIPDSWQPPNVYLETSMGIIVLELYWKHAPKTCKNFAELARRGYNGTKFHRIKDFMIQGGDPTGTGRGGA
SIYGKQFEDELHPDLKFTGAGILAMANAGPD TNGSQFFVTLAPTQWLDGKHTIFGRVCQGIGMVNRVGMVETNSQ
DRPVDDVKI IKAYPSG

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FIGURE 1910

CGTCAGAACCCATGCGGCAGCAAGGCCTGCCGCCGCCTCTTCGGCCCAGTGGACAGCGAGCAGCTGAGCCGCGAC
TGTGATGCGCTAAATGGCGGGCTGCATCCAGGAGGCCCGTGAGCGATGGAACTTCGACTTTGTCACCGAGACACCA
CTGGAGGGTGACTTCGCCTGGGAGCGTGTGCGGGGCCTTGGCCTGCCCAAGCTCTACCTTCCCACGGGGCCCCGG
CGAGGCCGGGATGAGTTGGGAGGAGGCAGGCGGCCTGGCACCTCACCTGCTCTGCTGCAGGGGACAGCAGAGGAA
GACCATGTGGACCAGCCTGGCCAACATGGTGAAATCTCTACTAAAAATACAAAAATTAGCTGGGCATGGTGGTGC
ACGCTTGTAATCCCAGCTACTTGGAAGGCTGAGGTGGGAGGATCACTTGAACCCAGGAGGCAGAGGTTGCAGTCA
GCTGAGATCATACCACTGTACTCCAGCCTCTTCCAGGGTGACAGTGAGATTCATCTCAAATAATACATAAATAA
AAAACGTGTTGGTAATATCTTCT

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FIGURE 1911

MAGCIQEARERWNFDFVTETPLEGDFAWERVRLGLPKLYLPTGPRRGRDELGGRRPGTSPALLQGTAEEDHVD
QPGQHGEISTKNTKISWAWWCTLVIPATWKAEVGGSLEPRRQRLQSAEIIPLYSSLFQGDSEIHLK

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FIGURE 1912

AGCTGAGGTGTGAGCAGCTGCCGAAGTCAGTTCCCTTGTGGAGCCGGAGCTGGGCGCGGATTGCGCGAGGCACCGA
GGCACTCAGAGGAGGTGAGAGAGCGGCGGCAGACAACAGGGGACCCCGGGCCGCGGCCAGAGCCGAGCCAAGC
GTGCCCCGCGTGTGTCCCTGCGTGTCCGCGAGGATGCGTGTTCGCGGGTGTGTGCTGCGTTCACAGGTGTTTCTGC
GGCAGGCGCCATGTCAGAACCGGCTGGGGATGTCCGTCAGAACCCATGCGGCAGCAAGGCCTGCCGCCGCCTCTT
CGGCCCAGTGGACAGCGAGCAGCTGAGCCGCGACTGTGATGCGCTAATGGCGGGCTGCATCCAGGAGGCCCGTGA
GCGATGGAACCTTCGACTTTGTACCGAGACACCACTGGAGGGTGACTTCGCCTGGGAGCGTGTGCGGGGCCTTGG
CCTGCCCAAGCTCTACCTTCCCACGGGGCCCCCGGCGAGGCCGGGATGAGTTGGGAGGAGGCAGGCGGCCTGGCAC
CTCACCTGCTCTGCTGCAGGGGACAGCAGAGGAAGACCATGTGGACCTGTCAGTGTCTTGTACCTTGTGCCTCG
CTCAGGGGAGCAGGCTGAAGGGTCCCCAGGTGGACCTGGAGACTCTCAGGGTCGAAAACGGCGGCAGACCAGCAT
GACAGATTTCTACCACTCCAAACGCCGGCTGATCTTCTCCAAGAGGAAGCCCTTAATCCGCCACAGGAAGCCTGC
AGTCTTGGAAGCGCGAGGGCCTCAAAGGCCCGCTCTACATCTTCTGCCTTAGTCTCAGTTTGTGTGTCTTAATTA
TTATTTGTGTTTTAATTTAAACACCTCCTCATGTACATAACCTGGCCGCCCCCTGCCCCCCAGCCTCTGGCATT
GAATTATTTAAACAAAACACTAGGCGGTTGAATGAGAGGTTCCCTAAGAGTGCTGGGCATTTTTATTTTATGAAATA
CTATTTAAAGCCTCCTCATCCCGTGTCTCCTTTTCTCTCTCCCGAGGTTGGGTGGGCGCGGCTTCATGCCAGC
TACTTCTCTCTCCCACTTGTCCGCTGGGTGGTACCTCTGGAGGGGTGTGGCTCCTTCCCATCGCTGTACAGG
CGGTTATGAAATTCACCCCTTTTCTGGACACTCAGACCTGAATTCTTTTTTATTTGAGAAGTAAACAGATGGCA
CTTTGAAGGGGCCTCACCGAGTGGGGGCATCATCAAAACCTTTGGAGTCCCCTCACCTCCTTAAGGTTGGGCAG
GGTGACCCTGAAGTGAGCACAGCCTAGGGCTGAGCTGGGGACCTGGTACCCTCCTGGCTCTTGATACCCCCCTCT
GTCTTGTGAAGGCAGGGGAAGGTGGGGTCTGGAGCAGACCACCCCGCTGCCCTCATGGCCCCTCTGACCTGC
ACTGGGGAGCCCGTCTCAGTGTGAGCCTTTTCCCTCTTTGGCTCCCCTGTACCTTTTGAGGAGCCCCAGCTACC
CTTCTTCTCCAGCTGGGCTCTGCAATTCCTCTGCTGCTGTCCCTCCCCCTTGTCTTTCCCTTCAGTACCCTC
TCAGCTCCAGGTGGCTCTGAGGTGCCTGTCCACCCCCACCCCAGCTCAATGGACTGGAAGGGGAAGGGACACA
CAAGAAGAAGGGCACCCCTAGTTCTACCTCAGGCAGCTCAAGCAGCGACCGCCCCCTCCTCTAGCTGTGGGGGTGA
GGGTCCCATGTGGTGGCACAGGCCCCCTTGAGTGGGGTATCTCTGTGTTAGGGGTATATGATGGGGGAGTAGAT
CTTTCTAGGAGGGAGACACTGGCCCCCTCAAATCGTCCAGCGACCTTCCTCATCCACCCCATCCCTCCCCAGTTCA
TTGCACTTTGATTAGCAGCGGAACAAGGAGTCAGACATTTTAAGATGGTGGCAGTAGAGGCTATGGACAGGGCAT
GCCACGTGGGCTCATATGGGGCTGGGAGTAGTTGTCTTTCCTGGCACTAACGTTGAGCCCCTGGAGGCACTGAAG
TGCTTAGTGTACTTGGAGTATTGGGGTCTGACCCCAAACACCTTCCAGCTCCTGTAACATACTGGCCTGGACTGT
TTTCTCTCGGCTCCCCATGTGTCTGGTTCCCGTTTCTCCACCTAGACTGTAAACCTCTCGAGGGCAGGGACCAC
ACCCTGTACTGTTCTGTGTCTTTACAGCTCCTCCACAATGCTGAATATACAGCAGGTGCTCAATAAATGATTC
TTAGTGACTTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1913

MSEPAGDVRQNPCGSKACRRLFGPVDSEQLSRDCDALMAGCIQEARERWNFDFVTETPLEGDFAWERVRLGLPK
LYLPTGPRRGRDELGGGRRPGTSPALLQGTAEDHVDLSLSCTLVPRSGEQAEGSPGGPGDSQGRKRRQTSMTDF
YHSKRRLIFSRRKP

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FIGURE 1914

AAATAAGGCGAGGAGAAGGCGGTGGTCCGCCATTTCGTGGACGCCGGGTGAGTGAGAGAGTTGGTTGGTGTGGG
CCGGAGGAAAGCGGGAAGACTCATCGGAGCGTGTGGATTTGAGCCGCCGATTTTTTAACCCTAGATCTCGAAAT
GCATCGTGATTCTGTCCATTGGACTGTAAGGTTTATGTAGGCAATCTTGAAACAATGGCAACAAGACGGAATT
GGAACGGGCTTTTGGCTACTATGGACCACTCCGAAGTGTGTGGGTTGCTAGAAACCCACCCGGCTTTGCTTTTGT
TGAATTTGAAGATCCCCGAGATGCAGCTGATGCAGTCCGAGAGCTAGATGGAAGAACACTATGTGGCTGCCGTGT
AAGAGTGGAAGTGTGAATGGTGAAAAAAGAAGTAGAAATCGTGGCCACCTCCCTCTTGGGGTCGTGCGCCCTCG
AGATGATTATCGTAGGAGGAGTCCCTCCACCTCGTCGCAGAGTCACCATCATGTCTCTTCTCACCACCCCTCTGAAT
CTGCATTAGCCAGTCAACTAGCCCTTTCAGCGTCATGTGACCAGCGCGCCCATTCAGCTTGGCTGGTGTCTGTTT
CACATGACCCAGGCTGGCCAGTCGTCAAGTTGCACCGCCCTTTGGTTCCCGAGCATGTCTGTTTTCTCTCAGCCTT
CTCTCCAACCTTAACCAAATCGGCAGCAGCCACCTCGACCGCCACACATTCTGGCCAATCAGCTCAGCTGTTT
ATTTACCAAATGTCTTACAACAACACTACAGCAGCAGCCTTCGGCTAACAAAAAGCAGGAAAAATCCACAACACC
CCCTTCGCCAACCAACTAAATCCAACGCAACATCTGGCAAAACCTTTTCAGCAAATCTTCTCTGGCCGTGAGTCC
GGCAGCCTCACCTCACCATTTCTAGCTTGTGAAACCCAAAACTAATCTCCAAGAAGGAGAAGCTTCTCTCGCAG
CCGGAGCAGGTCCCTTTCTAGAGATAGGAGAAGAGAGAGATCGCTGTCTCGGGAGAGAAATCACAAGCCGTCCCG
ATCCTTCTCTAGGTCTCGTAGTCGATCTAGGTCAAATGAAAGGAAATAGAAGACAGTTTGCAAGAGAAGTGGTGT
ACAGGAAATTACTTCATTTGACAGGAGTATGTACAGAAAAATCAAGTTTGTGTTGAGACTTCATAAGCTTGGTGC
ATTTTAAAGATGTTTTAGCTGTTCAAATCTGTTTGTCTCTTGAAACAGTGACACAAAGGTGTAATTCTCTATGGT
TTGAAATGGATCATACGAGGCATGTAATACCAAGAATTGTTACTTTACAATGTTCCCTTAAGCAAAATTGAATTT
GCTTTGAACTTTTAGTTATGCACAGACTGATAATAAACCTCTAAACCTGCCAGCGGAAGTGTGTTTTTTTTTAA
ATTTAAATACAGAAACAACCTGGCAAAATTTGAACTAAGATTTACTTTTTTTTCCATAGCTGGGATATAGGCTGCA
GCTATAGTTGAACAAGCAGTCTTTAAAACTGCTGTGAAACACAGGCCATCAGGGAAAACGAAATGCTGCACTAT
TAAATTAGAGGTTTTTGAAAAATCCAACCTCTCATCCTGGGCAGAGGTTGCCTAGTTGGTATAGAATGTTAAGTTT
CAAGAAAGTTTACCTTTGCTTTAGGTCTATAAGTTCCTTATTTGATTGCTGTATATGGATACATGGCTGTTCTGTA
CATTCCTTTATGTGCAAATTTGTGATTTCAAAAAATGTCCTGCCAGTTTAAGGGTACATTGTAGAGCCGAACTTTGA
GTTACTGTGCAAGATTTTTTTTTTTCATGCTGTCTATTTGTAATATGTTTTGTGAGAATCCTTGGGATTAAAGTTTTG
GTTACAAATTGTTCTTTAACTTGAAAGCCTGTTTTTCTTGCAAACTCAAATCTGTGAGCTTGGTACCAAGTCCA
GGTATAACATTCTTATTGGAAGCCATACTTATATTTTCTTGTAAGTGCTTTTGAATTAATAAAATATTAGCATA
ATTGTGTATAGTCAGTTGAACCCACTGTTACCATTGTTCTTATCCCATGGGAAGCAGTTGGTTACACGATTCTTA
TTTTATAAGAAACAGCTGAGAGGCACTATGGATTAGTCTTCTGAAGTGAAGGAAATATAGATGTCACCTAAGTGA
TAGTTAACCCATTTTTTTTTTTTTTAGGCATAGAAGCCAGTTCAGGGTCCATAATATTTAGTGACCAACATTTTA
AAGTATAGCAGCAACCTGGTTCTTAAACACAAAGTAAGTTGCCCATTAACAAATGGCTTTTATCTTTAGCATGAA
AACTTTCCACAGGTCTAAAAATTGCTTCCATTTTATAATTTGAGGTGTTGCATGGGAATTCTAAGCTGATCCATC
ATGATGTAAAAGTTCACAATATGGTTCAAATGTAACAGTGCAGAATTGAATATGGAGGCATGCATAACCTTCCTC
TTAGAAAAATGGCAGGTGTTGTAATTTCAAATTTTTGTGCAATTAGATTAAATCATAATGCAACAGT

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FIGURE 1915

MHRDSCPLDCKVYVGNLGNNGNKTELERAFGYYGPLRSVWVARNPFGFAFVEFEDPRDAADAVRELDGRTL CGCR
VRVELSNGEKRSRNRGPPPSWGRRPRDDYRRRSPPFRRRVTIMSLTTL

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FIGURE 1916A

GGTCTCACCATGGAGCGGAAAGTGCTTGCCTCCAGGCCCGAAAGAAAAGGACCAAGGCCAAGAAGGACAAAGCC
CAAAGGAAATCTGAAACTCAGCACCGAGGCTCTGCTCCCCACTCTGAGAGTGATCTACCAGAGCAGGAAGAGGAG
ATTCTGGGATCTGATGATGATGAGCAAGAAGATCCTAATGATTATTGTAAAGGAGGTTATCATCTTGTGAAAATT
GGAGATCTATTCAATGGGAGATACCATGTGATCCGAAAGTTAGGCTGGGGACACTTTTCAACAGTATGGTTATCA
TGGGATATTGAGGGGAAGAAATTTGTGGCAATGAAAGTAGTTAAAGTGCTGAACATTACACTGAAACAGCACTA
GATGAAATCCGGTTGCTGAAGTCAGTTCGCAATTCAGACCCTAATGATCCAAATAGAGAAATGGTTGTTCAACTA
CTAGATGACTTTAAAATATCAGGAGTTAATGGAACACATATCTGCATGGTATTTGAAGTTTTGGGGCATCATCTG
CTCAAGTGGATCATCAAATCCAATTATCAGGGGCTTCCACTGCCTTGTGTCAAAAAAATTATTTCAGCAAGTGTTA
CAGGGTCTTGATTATTTACATACCAAGTGCCGTATCATCCACACTGACATTAAACCAGAGAACATCTTATTGTCA
GTGAATGAGCAGTACATTCGGAGGCTGGCTGCAGAAGCAACAGAATGGCAGCGATCTGGAGCTCCTCCGCCCTTCC
GGATCTGCAGTCAGTACTGCTCCCCAGCCTAAACCAGCTGACAAAATGTCAAAGAATAAGAAGAAGAAATTGAAG
AAGAAGCAGAAGCGCCAGGCAGAATTACTAGAGAAGCGAATGCAGGAAATTGAGGAAATGGAGAAAGAGTCGGGC
CCTGGGCAAAAAAGACCAAACAAGCAAGAAGAATCAGAGAGTCCTGTTGAAAGACCCTTGAAAGAGAACCCACCT
AATAAAATGACCCAAGAAAACTTGAAGAGTCAAGTACCATTGGCCAGGATCAAACGCTTATGGAACGTGATACA
GAGGGTGGTGCAGCAGAAATTAATTGCAATGGAGTGATTGAAGTCATTAATTATACTCAGAACAGTAATAATGAA
ACATTGAGACATAAAGAGGATCTACATAATGCTAATGACTGTGATGTCCAAAATTTGAATCAGGAATCTAGTTTC
CTAAGCTCCCAAAATGGAGACAGCAGCACATCTCAAGAAACAGACTCTTGTACACCTATAACATCTGAGGTGTCA
GACACCATGGTGTGCCAGTCTTCTCAACTGTAGGTCAGTCATTGAGTGAACAACACATTAGCCAACTTCAAGAA
AGCATTGGGGCAGAGATACCTGTGAAGATGAACAAGAGCAAGAACATAACGGACCACTGGACAACAAAGGAAAA
TCCACGGCTGGAAATTTTCTTGTTAATCCCCTTGAGCCAAAAATGCAGAAAAGCTCAAGGTGAAGATTGCTGAC
CTTGGAATGCTTGTGTTGGCACAAACATTTCACTGAAGATATTCAAACAAGGCAATATCGTTTCTTGGAAGTTCTA
ATCGGATCTGGCTATAATACCCCTGCTGACATTTGGAGCACGGCATGCATGGCCTTTGAACTGGCCACAGGTGAC
TATTTGTTTGAACCTCATTGAGGGGAAGAGTACACTCGAGATGAAGATCACATTGCATTGATCATAGAATCTCTG
GGGAAGGTGCCTCGCAAGCTCATTGTGGCAGGAAATATTCCAAGGAATTTTTCACCAAAAAAGGTGACCTGAAA
CATATCACGAAGCTGAAACCTTGGGGCCTTTTTGAGGTTCTAGTGGAGAAGTATGAGTGGTCGCAGGAAGAGGCA
GCTGGCTTCACAGATTTCTTACTGCCCATGTTGGAGCTGATCCCTGAGAAGAGAGCCACTGCCGCCGAGTGTCTC
CGGCACCTTGGCTTAAGTCTTAAAGCCCTGCCCAGCACACAGCAGAGATCACACACTGACCTCCGCCCTTCC
CCTTCAAGCATTTTCTCTTCCCTTTTTCAGGGTGAAGCTCTTCTTCAAGAGTTTCTAGATCTTGTTTTTTTTT
AATCCAACATGTTTCAATTTGGGTTTGGCTTACTTGACCCTGTGGAGATCCCCACAGCCATTGGGCATCCTAGGTGAA
TTTGGCCTTGGTTGGGCTCTGCCAAAGACTAATGGACTAAAATGTGAAACAGCCTCTTGCCCTGTACCTTTCTCT
CCCATTAGGACATCCTTTAAATTATAAGCATCCTTTTTGAAAAGAGCTATGAAGGTGTATGAGCCCATCCTTTTA
TTCATTGACTCTAAGAGTCAAATTTTCTAGTGCATATCCTATTGCCAGCATAAGGATGAGGAGGGGAAAGGGTC
TTAATTCTATGTACAGCAGAGACATTAACTTGCTGTGTCCGGGCTGCATCATCTTCTGACTGTTTCTGTTGT
TCTCTGTGTTACATTTTTTCTGCAACTTTTAAGCTACTGTCTTTTTTAAATAGCTATATGAACACCAAATTTG
GGTACCATTTTATCACTGTTCAAAGCACTGTCAAATTCCTTTTATCCTTTAATAGTTAAGATCTTTGAATCTTCA
GTCTGATTTTTAATGTAAGCAAAAACAGAACCATTGAATAGTAATTTCTTGAGAACCTCAGGTGTTCTATAAACA
GTCCTTTCTGTATGTCTTCTATTACCCTAAGACCAGAGTTATTTTGGTTGGTTGTTTTGTTTTATTTTTTGT
TTGTATCCATGGCTGGCACTTTACTCATTGCACCTGAGTTTATTGCCCCATAACTAAAGGATCAGGATGATGGTA
GAACGGAGATCTGGGTTTCAGAGCTTTTCCCATTTAAGAAAAATAGATCTTGAGATTCTGATTCTTTTCCAAACAG
TCCCCTGCTTTTATGTACAGCTTTTTCTTTACCTTACCCAAAATCTGGCCTTGAAGCAGTTTTCTCTATGGCT
TTGCCCTTTCTGATTTTCTCAGAGGCTCGAGTCTTTAATATAACCCCAAATGAAAGAACCAAGGGGAGGGGTGGGA
TGGCACTTTTTTTTTGTTGGTCTTGTGTTTTGTTTTTGGTTGGTTGGTTGTTTATTTTTTAAAGATTAGCCAT
TCTCTGCTGCTATTTCCCTACATAATGTCAATTTTTAACCATAATTTTGACATGATTGAGATGTACTTGAGGCTT
TTTTGTTTTAATTGAGAAAAGACTTTGCAATTTTTTTTTTAGGATGAGCCTCTCCTAGACTTGACCTAGAATATT
ACATATTCCTCCAGTAAGTAATACTGAAGAGCAAAAGAGAGGCAGGATTGGGGTCACAGCCGCTTCTTCAGCATG
GACCAAGTGGGCCTTGGGGATTGCAGCGTTCTCGAAGTGGCTGTAGGACTCGAATTTACAGAAAGCCACAGAGGT
GCAACTTGAGGCTCTGCTAGCAAGCCACAGTGAGGCTATTGGGTAACCACCTTTCTATACAGGAGATTGGAATC
TACTTTGTCATTTATCCACCACAGTGACAAAGGAAAAGTGGTGCCGTTATGCAATCCATTTAACTCATAAACATA

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FIGURE 1916B

TTACTCTGAGTAACTGGCCAGCCATTCATCGGATCCTTCATTGGGTACTCCTGAAATCAGACATGTTTCCTGTAGA
AAGAATTTTAAGTTAGGCTTTCTATGCACCTATCAAGAATCAAGAGAATAGATTGTATCAAACAACGGCAGGGAA
ATCCTTCAGCAATTCTAATCCACTTTGGGTTTTTCAGCTGTTTTTACATCTAAAGCAATAGACTAGAACTGAATTA
TCTTCTACATAGTAAAATCACAATTGTGGAATTACAGGAATTCTGGTGATATTAAGGTGAAATAACAAAACACAA
AAGGCCCTATTTTAACAGTTGATGTGACAGTAAGTTTTAATAGAACCTGTAACCTCATTGGAATGCTTCTCC
ACCAAATAAGGGCTTTTTCCCCTATTTAAGGAGCCAGATGGATTGAAAGATGTGGAAATAGGCAGCTGTAGATCT
TGATCTTCCAGGTACCCCATGTACCTTTATTGAGCTTAATTATAATACTGTCAAATTGCCACGATCTCACTAAAG
GATTTCTATTTGCTGTCAGTTAAAAATAAAGCCCTAAATACATTTTTATTCTTTCTACTGAGGGCATTGTCTGTT
TTCTTTGTAAATGCCGTACAATAACAAATTATTTAATAACCTA

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FIGURE 1917

MERKVLALQARKKRTKAKKDKAQRKSETQHRGSAPHSESDLPEQEEEILGSDDDEQEDPNDYCKGGYHLVKIGDL
FNGRYHVIRKLGWGHFSTVWLSWDIQGKKFVAMKVVKSAEHYTETALDEIRLLKSVRNSDPNDPNREMVVQLDD
FKISGVNGTHICMVFEVLGHHLLKWIISNYQGLPLPCVKKIIQQVLQGLDYLHTKCRIIHTDIKPENILLSVNE
QYIRRLAAEATEWQRSGAPPPSGSAVSTAPQPKPADKMSKNKKKKLKKKQKRQAEELLEKRMQEIEEMEKESEGPQ
KRPNKQEESESPVERPLKENPPNKMTQEKLEESSTIGDQDTLMERDTEGGAAEINCNGVIEVINYTONSNNETLR
HKEDLHNANDCDVQNLNQESSFLSSQNGDSSTSQETDSCPTITSEVSDTMVCQSSSTVGQSFSEQHISQLQESIR
AEIPCEDEQEHEHNGPLDNKGKSTAGNFLVNPLEPKNAEKLKVKIADLGNACWHKHFTEDIQTRQYRSLEVLIGS
GYNTPADIWSTACMAFELATGDYLFEPHSGEEYTRDEDHIALIIELLGKVRKLIIVAGKYSKEFFTCKGDLKHIT
KLKPWGLFEVLVEKYEWSQEEAAGFTDFLLPMLELIPEKRATAAECLRHPWLNS

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FIGURE 1918A

GGGCCGGCTCGCGGGCGCTGCCAGTCTCGGGCGGCGGTGTCCGGCGCGCGGGCGGCCTGCTGGGCGGGCTGAAGG
GTTAGCGGAGCACGGGGCAAGGCGGAGAGTGACGGAGTCGGCGAGCCCCCGGGCGACAGGTTCTCTACTTAAAG
ACAATGACTACTGATGAAGGTGCCAAGAACAATGAAGAAAGCCCCACAGCCACTGTTGCTGAGCAGGGAGAGGAT
ATTACCTCCAAAAAAGACAGGGGAGTATTAAAGATTGTCAAAGAGTGGGAATGGTGAGGAAACGCCGATGATT
GGAGACAAAGTTTATGTCCATTACAAAGGAAAATTGTCAAATGGAAAGAAGTTTGATTCCAGTCATGATAGAAAT
GAACCATTGTCTTTAGTCTTGCCAAAGGCCAAGTCATCAAGGCATGGGACATTGGGGTGGCTACCATGAAGAAA
GGAGAGATATGCCATTTACTGTGCAAACCAGAATATGCATATGGCTCGGCTGGCAGTCTCCCTAAAATTCCCTCG
AATGCAACTCTCTTTTTTGAGATTGAGCTCCTTGATTTCAAAGGAGAGGATTTATTTGAAGATGGAGGCATTATC
CGGAGAACCAAACGGAAAGGAGAGGGATATTCAAATCCAAACGAAGGAGCAACAGTAGAAATCCACCTGGAAGGC
CGCTGTGGTGAAGGATGTTTGACTGCAGAGATGTGGCATTCACTGTGGGCGAAGGAGAAGACCACGACATTCCA
ATTGGAATTGACAAAGCTCTGGAGAAAATGCAGCGGGAAGAACAATGTATTTTATATCTTGGACCAAGATATGGT
TTTGAGAGAGGCAGGGAAGCCTAAATTTGGCATTGAACCTAATGCTGAGCTTATATATGAAGTTACACTTAAGAGC
TTCGAAAAGGCCAAAGAATCCTGGGAGATGGATACCAAAGAAAAAATTGGAGCAGGCTGCCATTGTCAAAGAGAAG
GGAACCGTATACTTCAAGGGAGGCAAATACATGCAGGCGGTGATTCAGTATGGGAAGATAGTGTCTGGTTAGAG
ATGGAATATGGTTTTATCAGAAAAGGAATCGAAAGCTTCTGAATCATTCTCCTTGCTGCCTTTCTGAACCTGGCC
ATGTGCTACCTGAAGCTTAGAGAATACACCAAAGCTGTTGAATGCTGTGACAAGGCCCTTGGACTGGACAGTGCC
AATGAGAAAGGCTTGATAGGAGGGGTGAAGCCAGCTGCTCATGAACGAGTTTGAGTCAGCCAAGGGTGACTTT
GAGAAAAGTGCTGGAAGTAAACCCCCAGAATAAGGCTGCAAGACTGCAGATCTCCATGTGCCAGAAAAAGGCCAAG
GAGCACAACGAGCGGGACCGCAGGATATACGCCAACATGTTCAAGAAGTTTGAGAGCAGGATGCCAAGGAAGAG
GCCAATAAAGCAATGGGCAAGAAGACTTCAGAAGGGGTCACTAATGAAAAAGGAACAGACAGTCAAGCAATGGAA
GAAGAGAAACCTGAGGGCCACGTATGACGCCACGCCAAGGAGGGAAGAGTCCAGTGAACCTCGGCCCTCCTCAA
TGGGCTTTCCCCCAACTCAGGACAGAACAGTGTTTTAATGTAAAGTTTGTTATAGTCTATGTGATTCTGGAAGCAA
ATGGCAAAACCAGTAGCTTTCCCAAAACAGCCCCCTGCTGCTGCCCGAGGGTTCACTGAGGGGTGGCACGGGA
CCACTCCAGGTGGAACAAACAGAAATGACTGTGGTGTGGAGGGAGTGAGCCAGCAGCTTAAGTCCAGCTCATTTC
AGTTTCTATCAACCTTCAAGTATCCAATTCAGGGTCCCTGGAGATCATCCTAACAAATGTGGGGCTGTTAGGTTTT
ACCTTTGAACCTTTCATAGCACTGCAGAAACCTTTTAAAAAAAATGCTTCATGAATTTCTCCTTTCTACAGTTG
GGTAGGGTAGGGGAAGGAGGATAAGCTTTTGTTTTTTAAATGACTGAAGTGCTATAAATGTAGTCTGTTGCATTT
TTAACCAACAGAACCCACAGTAGAGGGGTCTCATGTCTCCCAAGTCCACAGCAGTGTCACAGACGTGAAAGCCA
GAACCTCAGAGGCCACTTGCTTGCTGACTTAGCCTCCTCCCAAAGTCCCCCTCCTCAGCCAGCCTCCTTGTGAGA
GTGGCTTTCTACCACACACAGCCTGTCCCTGGGGGAGTAATTCTGTCAATTCCTAAACACCCTTCAGCAATGATA
ATGAGCAGATGAGAGTTTCTGGATTAGCTTTTCCTATTTTCGATGAAGTTCTGAGATACTGAAATGTGAAAAGAG
CAATCAGAATTGTGCTTTTTCTCCCTCCTCTATTCCTTTTAGGGAATAATATTCATAACACAGTACTTCCTCCC
AGCATTGCTACTGCTCAGCTTCTTCTTTTATTCTAATCCTTGCTATTAAGAATTTAAGACTTGTGCTTACAATAT
TTTTGACCTGGAGTGGATCTATTTACATAGTCATTTAGGATCCATGCAGCTTTTTTTGTCTTTTTAAGATTATTG
GCTCATAAGCATATGTATACTGGTTTATGGAACCTTTATTTACACTCCTCTATCATGCAAAAAAATTTTGACTTTT
TAGTACTAAGCTTAATTTTTTAAAAACAAAATCTGTAGTGTTGACAAATAAATAGTTGCTCTTCTACACTAGGGGT
TTCACCTGCAGGTTTGACACGCAGTTGCTCGCTTTTCCTGCCCTGTCAAGCTTCTCTGTTCTGGCGTGAGTTGTG
AAAGAGTTGAAGACAGCTTCCCATGCCGTACACAGCCAGTAGCCTAAATCTCCAGTACTTGAGCTGACCATTGA
ACTAGGGCAAGTCTTAAATGTGTACATGTAGTTGAATTTCACTCCTTACGGGTAAACAGATTGAGCATGGCTCTC
TATTCCTCAGCCTAAGAAACACTCATGGGAATGCATTTGGCAACCCAAGGAACCATTGTGCTTAAACCTGGAACA
TCTCACCTTTTTTAAATCCTAAAAACACTGGCAGTTATATTTTAAATTAGTTTTTTATTTTTATGATGGTTTTATC
AAAAGACTTTTTATTATTAGATTGGGACCCCTTCAAACCTAAAAATCAAGTTATTTCTTTTTATAATACTTTTCT
TCCCCATGGAACAAATGGGATCAATTTGTGAGTTTTTTCTTTTAAATGATAACTAAAATCCCTCTAATTTCTCATT
TATGCTTTTGTCTTTTTTATGAAATATTTCTTTTAAAGCCCCAGTCTCACCTACGAAATATGAAGAGCAAAAGC
TGATTTTGCTTACTTGCTAAACTGTTGGGAAAGCTCTGTAGAGCATGGTTCAGTGAGGCAAGATTGAAATTTG
ATACTAAAAGGCCACCTAGCTTTTTTGAGATAACAAACAAGAAAGCTATTCCAAGACTCAGATGATGCCAGCTG
TCTCCACGTGTGTATTATGGTTCAACAGGGGGAAGTGGCAAAAGTGTGTGTGGGAGGGGAAGGGTGTGTGAGT
GGTTCTGAGCAATAACTACAGGGTGCCCATTACCACTCAAGAAGACACTTCACGTATTCTTGTATCAAATTCAA

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FIGURE 1918B

TAATCTTAAACAATTTGTGTAGAAGTCCACAGACATCTTTCAACCACCTTTTAGGCTGCATATGGATTGCCAAGT
CAGCATATGAGGAATTAAAGACATTGTTTTAAAAAAAAAAAAATCATTAGATGCACTTTTTTGTGTGTTCTTAA
AATAAATCCAAAAAAAAATGTGAAAAAAAAAAAA

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FIGURE 1919

MTTDEGAKNNEESPTATVAEQGEDITSKKDRGVLKIVKRVNGEETPMIGDKVYVHYKGKLSNGKKFDSSHDRNE
PFVFSLGKGQVIKAWDIGVATMKKGEICHLLCKPEYAYGSAGSLPKIPSNATLFFEIELLDFKGEDLFEDGGIIR
RTKRKGEGYSNPNEGATVEIHLEGRCGGRMFDCRDVAFTVGEGEDHDIPIGIDKALEKMQREEQCILYLGPYGF
GEAGKPKFGIEPNAELIYEVTLKSFEKAKESWEMDTKEKLEQAAIVKEKGTVYFKGGKYMQAVIQYGKIVSWLEM
EYGLSEKESKASESFLLAFLNLAMCYLKLREYTKAVECCDKALGLDSANEKGLYRRGEAQLLMNEFESAKGDFE
KVLEVNPQNKAARLQISMCQKKAKEHNERDRRIYANMFKKFAEQDAKEEANKAMGKKTSEGV TNEKGTDSQAMEE
EKPEGHV

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FIGURE 1920

CGCCACCATGGTGTGCGTGAACGTCCTGGCCGATGCTCTCAAGAGCATCAACAATGCCGAAAAGAGAGGCCAAACG
CCCAGTGCTTATTAGGCCGTGCTCCAACTCATCGTCCGGTTTCTCACTGTGATGATGAAGCATGGTTACATTGG
CGAATTTGAAATCATTGATGATCGCAGAGCTGGGAAAATTGTTGCGAACCTCACAGGCAGGCTAAACAAGTGTGG
AGTGATCAGCCCCAGATTCGGTGTGCAACTCAAAGATCTAGAAAATGGCAGAATAATCTGCTTCCATCCCACCAG
TTTGGTTTCATTGTACTGACAACCTCAGCTGGCATCATGGACCATGAAGAAGCAAGACGAAAACACACAGGAGGG
AAAATCCTGGGATTCTTTTTCTAGGGATGTAATACATATATTTACAAATAAAATGTCTCATGGAAAAAAAAGAAA
AAAGACAGGAAAAAAAAAAAAAAAAAAAAAAT

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FIGURE 1921

GCCTCCCGCTCCAGCCCGGCTCATTCCGCACATTCCGGCCAGCCCCCTCCCCACGACCCCCCTTCCCCGGCCCC
CTTGCGGCTCCCTCGGGCCCGGCGGAGCGGCCCGGCGAGCGCCCCCGCGAGCTCGGACCAGGCTCAGCCGCCC
AGTGGGCTCAGGCCCAGAGCCCAGAGCAACCAGCACAATAGCGTCCAACAGCTGGAACGCCAGCAGCAGCCCCGG
GGAGGCCCGGAGGATGGGCCCCGAGGGCCTGGACAAGGGGCTGGACAACGATGCGGAGGGCGTGTGGAGCCCCGA
CATCGAGCAGAGCTTCCAGGAGGCCCTGGCCATCTACCCGCCCTGCGGCCGGCGGAAGATCATCCTGTAGACGA
GGGCAAGATGTACGGCCGAAATGAGTTGATTGCACGCTATATTAACTGAGGACGGGGAAGACTCGGACGAGAAA
ACAGGTGTCCAGCCACATACAGGTTCTAGCTCGGAAGAAGGTGCGGGAGTACCAGGTTGGCATCAAGGCCATGAA
CCTGGACCAGGTCTCCAAGGACAAAGCCCCCTTCAAGCATGGCGTCCATGTCTCTGCCAGATCGTCTCTGCCAG
TGTCTGCGAACAAGTTTACGCCACCTTCCCCCTCTGCCCCAGGCCGTCTTCTCCACTTCCCTCGCGTTCTGGAG
CAGCCCCCTCTCCTGGGACAGCAGCCTGGACCCTCTCAGGACATCAAGCCCTTTGCACAGCCAGCCTACCCAT
CCAGCCGCCCTGCGGCCGACGCTCAGCAGTTATGAGCCCCCTGGCCCCGCTCCCCTCAGCTGCTGCCTCTGTGCC
TGTGTGGCAGGACCGTACCATTGCCTCCTCCCGCTGCGGCTCCTGGAGTATTACGCCTTCATGGAGGTGCAGCG
AGACCCTGACACGTACAGCAAACACCTGTTTGTGCACATCGGCCAGACGAACCCCGCCTTCTCAGACCCACCCCT
GGAGGCAGTAGATGTGCGCCAGATCTATGACAAATTCCCCGAGAAAAAGGGAGGATTGAAGGAGCTCTATGAGAA
GGGGCCCCCTAATGCCTTCTTCTTGTCAAGTTCTGGGCCGACCTCAACAGCACCATCCAGGAGGGCCCCGGGAGC
CTTCTATGGGGTCAGCTCTCAGTACAGCTCTGCTGATAGCATGACCATCAGCGTCTCCACCAAGGTGTGCTCCTT
TGGCAAACAGGTGGTAGAGAAGGTGGAGACTGAGTATGCCAGGCTGGAGAACGGGCGCTTTGTGTACCGTATCCA
CCGCTCGCCCATGTGCGAGTACATGATCAACTTCATCCACAAGCTGAAGCACCTGCCCGAGAAGTACATGATGAA
CAGCGTGTGGAGAACTTACCATCCTGCAGGTGGTCACGAGCCGGGACTCCAGGAGACCCTGCTTGTATTGC
TTTTGTCTTCGAAGTCTCCACCAGTGAGCACGGGGCCAGCACCATGTCTACAAGCTCGTCAAAGACTAGGGTGC
CCTCTGCGCCTCCTTAAGGATGCAGGGTGAGCATCTCCTCTCCACACCTGCCTGGCACCCTGGGGGGTCCAGG
ATTGAGGATTCTCTACCTGCCAGGCCTCAGGCCAGGACCCAGGAGGCTCCCCACCTACCCAGCACACACAC
TCCCTGCCACTGTTCTGCGCTTTAATTGTGGGAGAAGAGAGGAGAGGGGCTCAGCGGTGGGGCAGCCTGTCCG
GGGCGCTGACCCACCATACCCTGCTCTGCCAGCCTCGCGTGACCTCAGAGAGGTGGGGATAGGGGACACCTTC
AGCCTCCAGCATGTGTGGCCACTGTACCCCCACCCACCTTGGGGGAGCATGATGGGCAGGTGAGGGCAGGATGG
AGACCAAGGGAGTCAGTGAGCAGAGGCCCTGGGAGTGTCCGGTTGGGGTTGGACTGAGGACAGAGGGGGCCACAC
TTCCTTGCCCCCTTTGTGTCCAGGCCTGGTGCCAGACTCCTTGCCATGGCTTGTGTGGTCTCAGACTCCGCACA
GCGAGCGTAGGTCTCTGGGTTTTCAGATGAAGTGCCAGGCTCCAGGAAGTTGAGGGACCCACAGGAGAGGTGGGC
AGAGCTGGAGTTCTCATCCAGGGCTGCTTGTCCCCAGAGCCAGGTTTATACTACCTCCCTGGGGCGGGGGCTGG
CCGAGGGTAGGGGAGAGGCTCTGCAGTGTGGAGTGGAGCCTCATCGAGGGGCGCTGGGTTAGGGGAGCAGCTGT
TTCAGACTGGGCATGAAGAAGGGAGCACAGCAGCTACTAGACCCCATTAGCACCTCATTAGCCACAAAGCCAGCC
AGGGGCCCCAGGAAGATGGGGCACCCCCCAGCACCCCTCCAGATTGAGAGCAAGGTAGAGGAAGGAGTCCAGCCT
CTGGGCAGACCAGAGGCCAGAGGGAGAGAGTAGCAGAAGGCTTTTGATTTTCTCTTGCCTGAGGCTTGAATCT
GACAAACCCTTGGTGGGCACTGCTCCCTTAGGTTCTTCCCCACCTCAATCTACCTGCCTAGAGTAGCAGCTCCCA
GACCCAGTTCTGGGACTGAAGGTTAACCCCTTCACTGCTGTCCCTTCTTAACACCCAGGCCCCCAGAGCCAGCTG
GGCCTGTCCAGCAGCCACCTGTGGGTATTTATGAGTTTCATATGAAGTACTGTGCCCTTCCCTTCCCTCATCCCG
ACCTGCCCCGAGCTTCTGAAGGTCTCACTGTTTGCATATCGCTCAGGCCACCTCCAAACCCACCTAGGTTTT
ATAATGTATATTATATATTTTTTTGTGTATTTTTTAAATCCAGCTGTGATGGGTATATCATAAATGCAGCTTGG
GGTTGGAGCAGGGGCCCTCAAAGGCCAGCTCCTGCTC

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FIGURE 1922

GCGGCGTGAGAAGCCATGAGCAGCAAAGTCTCTCGCGACACCCTGTACGAGGCGGTGCGGGAAGTCCTGCACGGG
AACCAGCGCAAGCGCCGCAAGTTCCTGGAGACGGTGGAGTTGCAGATCAGCTTGAAGAACTATGATCCCCAGAAG
GACAAGCGCTTCTCGGGCACCGTCAGGCTTAAGTCCACTCCCCGCCCTAAGTTCTCTGTGTGTGTCCTGGGGGAC
CAGCAGCACTGTGACGAGGCTAAGGCCGTGGATATCCCCACATGGACATCGAGGCGCTGAAAAAACTCAACAAG
AATAAAAACTGGTCAAGAAGCTGGCCAAGAAGTATGATGCGTTTTTGGCCTCAGAGTCTCTGATCAAGCAGATT
CCACGAATCCTCGGCCCAGGTTTAAATAAGGCAGGAAAGTTCCCTTCCCTGCTCACACACAACGAAAACATGGTG
GCCAAAGTGGATGAGGTGAAGTCCACAATCAAGTTCCAAATGAAGAAGGTGTTATGTCTGGCTGTAGCTGTTGGT
CACGTGAAGATGACAGACGATGAGCTTGTGTATAACATTACCTGGCTGTCAACTTCTTGGTGTCAATTGCTCAAG
AAAACTGGCAGAATGTCCGGGCCTTATATATCAAGAGCACCATGGGCAAGCCCCAGCGCCTATATTAAGGCACA
TTTGAATAAATTCTATTACCAGTTC

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FIGURE 1923

MSSKVSRTLYEAVREVLHGNQRKRRKFLETVELQISLKNYDPQDKRFSGTVRLKSTPRPKFSVCVLGDQQHCD
EAKAVDIPHMDIEALKKLNKNKKLVKKLAKKYDAFLASESLIKQIPRILGPGLNKAGKFPSLLTHNENMVAKVDE
VKSTIKFQMKKVLCLAVAVGHVKMTDDELVYNHILAVNFLVSLKKKNWQNVRALYIKSTMGKPQRLY

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FIGURE 1924

GTGAGTTTACCCCTATGAGACTGTGAGAGGCCCGGGGCCTACCTCAAAGGAGCGGGGTCGCGAAGCTAGCTAGCA
GCGGCCCCCCTCCAGGTCCCCGGGCCCCGGCGGCGGGCGGGCCTTGGTTGTGAAGAGGCGGGGAAGCGGGTGTC
CGGTCCCCGCCATGGGAGGGCATGGACGTAGACCTGGACCCGGAGCTGATGCAGAAAGTTCAGCTGCCTGGGCACCA
CCGACAAGGACGTGCTCATCTCCGAGTTCCAGAGGCTGCTCGGCTTCCAGCTCAATCCTGCCGGTTGCGCCTTCT
TCCTGGACATGACCAACTGGAACCTACAAGCAGCAATTGGCGCCTATTATGACTTTGAGAGCCCAAACATCAGTG
TGCCCTCTATGTCCTTTGTTGAAGATGTCACCATAGGAGAAGGGGAGTCAATACCTCCGGATACTCAGTTTGTA
AAACATGGCGGATCCAGAATTCTGGGGCAGAGGCCTGGCCTCCAGGGGTTTGTCTTAAATATGTCGGGGGAGACC
AATTTGGACATGTGAACATGGTGATGGTGAGATCGCTAGAGCCCCAAGAGATTGCAGATGTCAGCGTCCAGATGT
GCAGCCCCAGCAGAGCAGGAATGTATCAGGGACAGTGGCGGATGTGCACTGCTACAGGACTCTACTATGGAGATG
TCATCTGGGTGATTCTCAGTGTGGAGGTGGGTGGACTTTTAGGAGTAACGCAGCAGCTGTCATCTTTTGAAACGG
AGTTCAACACACAGCCGCATCGTAAGGTAGAAGGAACTTCAACCCTTTTGCTCTCCCCAAAAGAACCGACAAT
CAGATGAAAACAACCTAAAAGACCCTGGGGGCTCCGAGTTGCGACTCGATCAGCAAAAACACATGGGCTCCTGCTC
CTGACACATGGGCTCCTGCTCCTGACCAAACCTGAGCAAGACCAGAATAGACTGTCACAGAACTCTGTAAATCTGT
CTCCAGCAGTCACGCAAACAACCTTATCAGTAGTGACTTACAGTAAGGGGCTCCATGGGCCTTACCCCTTCGGCC
AGTCTTAAACGGGTGTCAGCAAAAAAAAAAAAAAAAAA

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FIGURE 1925

MEGMDVDLDPPELMQKFSCLGTTDKDVLISEFORLLGFQLNPAGCAFFLDMTNWNLQAAIGAYYDFESPNI SVPSM
SFVEDVTIGEGESIPPD TQFVKTWRIQNSGAEAWPPGVCLKYVGGDQFGHVNMMVRSLEPQEIADVSVMCSPS
RAGMYQGQWRMCTATGLYYGDVIWVILSVEVGGLLGVTQQLSSFETEFNTQPHRKVEGNFNPFPASPQKNRQSDEN
NLKDPGGSEFDSISKNTWAPAPDTWAPAPDQTEQDQNRLSQNSVNLSPSSHANNLSVVITYSKGLHGPYPFGQS

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FIGURE 1926

GGCACGAGGGGGTGAGGGTCTGCCTGCCTGTTTCTGTCTGGGTGTCTGAGTTCCAAAAAATGTGTGTTGTTTGT
CCTCCTCATCCTCTTCTGAGACTGTTGTTTTTTTAGAGCTTGATTGTGGGAGAAAAGCTTGTGTGAAATTCCCTC
TTCACCTCCCCACCCCCAAAAATAAAAGGGGGCATAAACTTTATTCCACTGGAGAAAGCCCTGGGGGTGGCTGG
AGCCAGCCTGCTGAGAAGCGTGGTGCAGCTGGGTCTGGGACTTCACTAGAGCTTACTCTGGAGCACCTATTTTCT
GTGCACATGGGAGTGCTCCACTCCCTAGCAGAGCAGAGGGAAGTCTCTGCCAGGTACCCACGCCACAGGCCTCAG
GATGGCCTTTTTGTCTGAGGGCCTCATTAGGCCAGACTGCTGCTGCTGGTACCAGTCTCCTGAGACACTGCCTCC
CTGGAGCCCATGCATGCCCAGCTGTTCTTACTGCTTAGTAGCCTTGAAGCAGCACATCTCCACTGTCCCTGGCAG
GATTGTGGGAGGCTTCACAACCCCTGCTTTCCTGACTTCCTCTTCTGCCCAACACTGGGTGCCCCCTTCCCAGTTT
CCCAGCAGGGGCTTCATGGGCCACCGTCAGTGGGTCTGGGCCTGCCAGAGTCGTCTTGCTCTTCTTCTTGCTTCT
AGGCAACCACACTTGGCAAGTTAAATGTCCCAAGCACCTTGTCTCCCTTCCCAAGAACAAACCATTTCTGTGCAC
ATCCTTGGAGGCGAGATGAGCTCCTTGCAGAGGGCCAGAGTAAGTGCAAGTCATGGAGTGCAGGCAGAGGGGTCC
ATGGCTTCCCCAGCCCAGGGAGGGTATCAGTATCATTCAATTCTCTCTCCCCTCACTGGTATGGGTTTCAGAGCAAT
GCCTAGGGCCCCCTCTCTGCTCCCTGCTTAGTGGGGTGGTAGTGGCTACCTCTCAGCCCCAATAGTCCCTGCTCC
TCTTAGAATCTTCACCAAGTGGCAGGCCACCTCTGGGCAGGACCACCTGCGTCTGGCACCCAGGAGGTGAGGCAG
ACACCATGGTTAGGTGATAGGGTCTGAACCCAGTTGGGGAGACAGAGGGGTTTCAGACTTGGGAAGAATCTGTGAG
TGTCATGGAGTGAGGTGTGTGTGTGTGGATGGATGTGCACGTGTGCATGCTTTTTTTCTTTTGGCGTGAGGAC
AGTTGAATTTGGGGCATTTTCTACAAGAAGCAGTCAGCCTTCTCTCCCCATAAGGACTGGCTGTAACCTTAAG
CCCATCAAAGTTACTTCCAGCCTGGAGAGAACCTCACCAAACAGCTGGTGTGGCCTGAGGGTGGCCATGGTGGGA
AATGGGCATGAGAATAAATACCTCCCCAAATTCAATCTGAGCCCAGCAGGAGAGGATGGTAGGGTTGCCAGGGCT
CAGAAGTGCAAGCTGATTACTCACCCACCCTGCCTCGCCGCACCTTTCCTTTGTTTCTTGGGTGAATGCAGGA
GCAGCAGTGGCTGCCCTTCCCACCTGGACAGTGGTGTGTGTAGAAAGCCAGCTGGATGTTTGTGGTGGGGCCTCA
TGGTGCCTAGGAGGAGATAAAGATGAGGAGGTTTTTCCTTATTGTATAAATGAATATTGTATGATTAAATTAAC
ACACACACCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1927

MAFCLRASLGPDCCCWYQSPETLPPWSPCMPSCSYCLVALKQHISTVPGRIVGGFTTPAFLTSSSAQHWVPLPSF
PAGASWATVSGSGPARVVLLFLLLLGNHTWQVKCPKHLVSLPKNKPFLCTSLEAR

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FIGURE 1928

AGAGTCGTCTTGCTCTTCCTCTTGCTTCTAGGCAACCACACTTGGCAAGTTAAATGTCCCAAGCACCTTGTCTCC
CTTCCCAAGAACAACCATTTTTTCTTTTGGCGTGAGGACAGTTGAATTTGGGGCATTTTTCTACAAGAAGCA
GTCAGCCTTCTCTCCCCATAAGGACTGGCTGTAACTTAAGCCCATCAAAGTTACTTCCAGCCTGGAGAGAACC
TCACCAAACAGCTGGTGTGGCCTGAGGGTGGCCATGGTGGGAAATGGGCATGAGAATAAATACCTCCCCAAATC
AATCTGAGCCCAGCAGGAGAGGATGGTAGGGTTGCCAGGGCTCAGAAGTGCAAGCTGATTACTCACCCACCCCTG
CCTCGCCGCACCTTTCCTTTGTTTCCTTGGGTGAATGCAGGAGCAGCAGTGGCTGCCCTTCCCACCTGGACAGTG
GTGTGTGTAGAAAGCCAGCTGGATGTTTGTGGTGGGGCCTCATGGTGCCTAGGAGGAGATAAAGATGAGGAGGTT
TTTCCTTATTGTATAAATGAATATTTGTATGATTAAATTAACACACACACCAAAAAA

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FIGURE 1929

GTCTGACTTCCTCCCAGCACATTCTGCACTCTGCCGTGTCCACACTGCCCCACAGACCCAGTCCTCCAAGCCTG
CTGCCAGCTCCCTGCAAGCCCCTCAGGTTGGGCCTTGCCACGGTGCCAGCAGGCAGCCCTGGGCTGGGGGTAGGG
GACTCCCTACAGGCACGCAGCCCTGAGACCTCAGAGGGCCACCCCTTGAGGGTGCCAGGCCCCCAGTGGCCAAC
CTGAGTGCTGCCCTCTGCCACCAGCCCTGCTGGCCCCCTGGTTCCGCTGGCCCCCAGATGCCTGGCTGAGACACGC
CAGTGGCCTCAGCTGCCCACACCTCTTCCCGCCCCCTGAAGTTGGCACTGCAGCAGACAGCTCCCTGGGCACCAG
GCAGCTAACAGACACAGCCGCCAGCCCAAACAGCAGCGGCATGGGCAGCGCCAGCCCGGTCTGAGCAGCGTATC
CCCCAGCCACCTCCTGCTGCCCCCAGACCGGTGTCGCGGCACAGGCTTGAGAGAAGGCGGCAGCGGGGGCAGTGGG
TCTCGAGAGACGGGACTGGAGTCCCAGTCCACCCGCCACGCCCCAGCAGGGCCTGTCCGCCTTCTACCTCTCCTA
CTTTGACATGCTGTACCTGAGGACAGCAGCTGGGCAGCCAAGGCCCCCTGGGGCCAGCAGTCGGGAGGAGCCACC
TGAGGAGCCTGAGCAGTGCCCGGTTCATTGACAGCCAAGCCCCAGCGGGCAGCCTGGACTTGGTGCCCGGCGGGCT
GACCTTGAGGAGCACTCGCTGGAGCAGGTGCAGTCCATGGTGGTGGGCGAAGTGCTCAAGGACATCGAGACGGC
CTGCAAGCTGCTCAACATCACCGCAGATCCCATGGACTGGAGCCCCAGCAATGTGCAGAAGTGGCTCCTGTGGAC
AGAGCACCAATACCGGTGCCCCCATGGGCAAGGCCTTCCAGGAGCTGGCGGGCAAGGAGCTGTGCGCCATGTC
GGAGGAGCAGTTCGCGCAGCGCTCGCCCCTGGGTGGGGATGTGCTGCACGCCCACCTGGACATCTGGAAGTCAGC
GGCCTGGATGAAAGAGCGGACTTCACCTGGGGCGATTCACTACTGTGCCTCGACCAGTGAGGAGAGCTGGACCGA
CAGCGAGGTGGACTCATCATGCTCCGGGCAGCCATCCACCTGTGGCAGTTCCTCAAGGAGTTGCTACTCAAGCC
CCACAGCTATGGCCGCTTCATTAGGTGGCTCAACAAGGAGAAGGGCATCTTCAAATGAGGACTCAGCCCAGGT
GGCCCGCTGTGGGGCATCCGCAAGAACCCTCCGCCATGAACTACGACAAGCTGAGCCGCTCCATCCGCCAGTA
TTACAAGAAGGGCATCATCCGGAAGCCAGACATCTCCAGCGCCTCGTCTACCAGTTCGTGCACCCCATCTAGT
GCCTGGCCCAGGGCCTGAAACCCGCCCTCAGGGGCCTCTCTCCTGCCTGCCCTGCCTCAGCCAGGCCCTGAGATG
GGGAAAACGGGCAGTCTGCTCTGCTGCTCTGACCTTCCAGAGCCCAAGGTCAGGGAGGGGCAACCAACTGCCCC
AGGGGATATGGTCTCTGGGGCCTTCGGGACCATGGGGCAGGGGTGCTTCTCCTCAGGCCAGCTGCTCCCC
TGGAGGACAGAGGGAGACAGGGCTGCTCCCCAACACCTGCCTCTGACCCAGCATTTCCAGAGCAGAGCCTACAG
AAGGGCAGTGA CTGACAAAGGCCACAGGCAGTCCAGGCCTCTCTGCTCCATCCCCCTGCCTCCATTCTGCA
CCACACCTGGCATGGTGCAGGGAGACATCTGCACCCCTGAGTTGGGCAGCCAGGAGTGCCCCCGGGAATGGATAA
TAAAGATACTAGAGAACTG

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FIGURE 1930

MGSASPGGLSSVSPSHLLLPPDTVSRTGLEKAAAGAVGLERRDWSPSPPATPEQGLSAFYLSYFDMLYPEDSSWAA
KAPGASSREEPPPEEQCPVIDSQAPAGSLDLVPGGLTLEEHSLQVQSMVVGEVLKDIETACKLLNITADPMDW
SPSNVQKWLWTEHQYRLPPMGKAFQELAGKELCAMSEEQFRQRSPLGGDVLHAHLDIWKSAAWMKERTSPGAIH
YCASTSEESWTDSEVDSSCSGQPIHLWQFLKELLLKPHSYGRFIRWLNKEKGIFKIEDSAQVARLWGIRKNRPAM
NYDKLSRSIRQYYKGIIRKPDISQRLVYQFVHPI

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FIGURE 1931

CGGCGGCCGAGCTCGCGCATCCCAGCCATCACTCTTCCACCTGCTCCTTAGAGAAGGGAAGATGAGTGAGTCGAG
CTCGAAGTCCAGCCAGCCCTTGGCCTCCAAGCAGGAAAAGGACGGCACTGAGAAGCGGGGCCGGGGCAGGCCGCG
CAAGCAGCCTCCGGTGAGTCCCGGGACAGCGCTGGTAGGGAGTCAGAAGGAGCCCAGCGAAGTGCCAACACCTAA
GAGACCTCGGGGCCGACCAAAGGGAAGCAAAACAAGGGAGAAGGAGGAAGAGGAGGGGCATCTCGCAGGAGTCCT
CGGAGGAGGAGCAGTGACCCATGCGTGCCGCCTGCTCCTCACTGGAGGAGCAGCTTCCTTCTGGGACTGGACAGC
TTTGCTCCGCTCCACCGCCCCCACCCTTCCCCAGGCCCCACCATCACCACCGCCTCTGGCCGCCACCCCCATCT
TCCACCTGTGCCCTCACCACCACACTACACAGCACACCAGCCGCTGCAGGGCTCCCATGGGCTGAGTGGGGAGCA
GTTTTCCCTGGCCTCAGTTCCAGCTCCCCCGCCCCACCCACGCATACACACATGCCCTCCTGGACAAGGCTAA
CATCCCACTTAGCCGCACCCTGCACCTGCTGCGTCCCCACTCCCTTGGTGGTGGGGACATTGCTCTCTGGGCTTT
TGGTTTGGGGGCGCCCTCTCTGCTCCTTCACTGTTCCCTCTGGCTTCCCATAGTGGGGCCTGGGAGGGTTCCCT
GGCCTTAAAAGGGGCCCAAGCCCCATCTCATCCTGGCACGCCCTACTCCACTGCCCTGGCAGCAGCAGGTGTGGC
CAATGGAGGGGGGTGCTGGCCCCCAGGATTCCCCCAGCCAAACTGTCTTTGTACCACGTGGGGCTCACTTTTCA
TCCTTCCCCAACTTCCCTAGTCCCCGTA TAGGTTGGACAGCCCCCTTCGGTTACAGGAAGGCAGGAGGGGTGAG
TCCCTACTCCCTCTTCACTGTGGCCACAGCCCCCTTGCCCTCCGCCTGGGATCTGAGTACATATTGTGGTGATG
GAGATGCAGTCACTTATTGTCCAGGTGAGGCCCAAGAGCCCTGTGGCCGCCACCTGAGGTGGGCTGGGGCTGCTC
CCCTAACCCTACTTTGCTTCCGCCACTCAGCCATTCCCCCTCCTCAGATGGGGCACCAATAACAAGGAGCTCAC
CCTGCCCGCTCCCAACCCCCCTCCTGCTCCTCCCTGCCCCCAAGGTTCTGGTTCCATTTTCTCTGTTCACAA
ACTACCTCTGGACAGTTGTGTTGTTTTTGTTCATGTTCCATTCTTCGACATCCGTCATTGCTGCTGCTACCAG
CGCCAAATGTTATCCTCATTGCCTCCTGTTCTGCCCACGATCCCCCTCCCCCAAGATACTCTTTGTGGGGAAGAG
GGGCTGGGGCATGGCAGGCTGGGTGACCGACTACCCAGTCCCAGGGAAGGTGGGGCCCTGCCCCCTAGGATGCTG
CAGCAGAGTGAGCAAGGGGGCCCCAAATCGACCATAAAGGGTGTAGGGGGCCACCTCCTCCCCCTGTTCTGTGGGG
AGGGGTAGCCATGATTTGTCCCAGCCTGGGGCTCCCTCTCTGGTTTCCTATTTGCAGTTACTTGAATAAAAAAAA
TATCCTTTTCTGG

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FIGURE 1932

GGTGGCCACAGAGCAACTTCCTCTAGAGGGAGCTGATTGGAGCCGGGTGCCGCTGGCACCTCTATGATCACTGGA
GTCTCGCGGGTCCCTCGGGCTGCACAGGGACAAGTAAAGGCTACATCCAGATGCCGGGAATGCACTGACGCCCAT
TCCTGGAAACTGGGCTCCCACTCAGCCCCTGGGAGCAGCAGCCGCCAGCCCCCTCGGGACCTCCATCTCCACCCTG
CTGAGCCACCCGGGTGTTGGGCCAGGATCCCGGCAGGCTGATCCCGTCTCCACTGAGACCTGAAAAATGGCTTCGG
GGCAAGGCCCAGGTCCCTCCAGGCAGGAGTGCAGGAGAGCCTGCCCTGCCCTCTGCTTCTGCAGGAACAGGAGGCT
GAAGGGGTGGCTGCCCCTGCCGACCCAGAGATGGTCACCTTACCTCTGCAACCTACAGCACCATGGGGCAGGTGG
GACGGCAGCTCGCCATCATCGGGGACGACATCAACCGACGCTATGACTCAGAGTTCCAGACCATGTTGCAGCACC
TGCAGCCCACGGCAGAGAATGCCTATGAGTACTTCACCAAGATTGCCACCAGCCTGTTTGAGAGTGGCATCAATT
GGGGCCGTGTGGTGGCTCTTCTGGGCTTCGGCTACCGTCTGGCCCTACACGTCTACCAGCATGGCCTGACTGGCT
TCCTAGGCCAGGTGACCCGCTTCGTGGTGCAGTTTCATGCTGCATCACTGCATTGCCCGGTGGATTGCACAGAGGG
GTGGCTGGGTGGCAGCCCTGAACCTTGGGCAATGGTCCCATCCTGAACGTGCTGGTGGTTCTGGGTGTGGTTCTGT
TGGGCCAGTTTGTGGTACGAAGATTCTTCAAATCATGACTCCCAAGGGTGCCCTTTGGGGTCCCGGTTTCAGACCC
CTGCCTGGACTTAAGCGAAGTCTTTCGCTTCTCTGTTCCCTTCAGAGGGTCCCCCTCAAGAGTACAGAAGCTTT
AGCAAGTGTGCACTCCAGCTTCGGAGGGCCCCCTGCGTGGGGGCCAGTCAGGCTGCAGAGGCACCTCAACATTGCA
TGGTGTAGTGGGCCCTCTCTCTGGGCCCAGGGGCTGTGGCCGTCTCCTCCCTCAGCTCTCTGGGACCTCCTTAG
CCCTGTCTGCTAGGCGCTGGGGAGACTGATAACTTGGGGAGGCAAGAGACTGGGAGCCACTTCTCCCCAGAAAGT
GTTTAACGGTTTTAGCTTTTTATAATACCCTTGTGAGAGCCCATTCACCATTCTACCTGAGGCCAGGACGTCT
GGGGTGTGGGGATTGGTGGGTCTATGTTCCCCAGGATTGAGCTATTCTGGAAGATCAGCACCTAAGAGATGGGA
CTAGGACCTGAGCCTGGTCCTGGCCGTCCCTAAGCATGTGTCCAGGAGCAGGACCTACTAGGAGAGGGGGGCCA
AGGTCTCTGCTCAACTCTACCCCTGCTCCCATTCCCTCCCTCCGGCCATACTGCCTTTGCAGTTGGACTCTCAGGGA
TTCTGGGCTTGGGGTGTGGGGTGGGGTGGAGTCGACAGACCAGAGCTGTCTGAACTCACGTGTGAGAAGCCTCCAA
GCCTGCCTCCCAAGGTCCTCTCAGTTCTCTCCCTTCTCTCTCCTTATAGACACTTGCTCCCAACCCATTCTACTA
CAGGTGAAGGCTCTCACCCCCATCCCTGGGGGCCTTGGGTGAGTGGCCTGCTAAGGCTCCTCCTTGCCAGACTA
CAGGGCTTAGGACTTGGTTTGTATATCAGGGAAAAGGAGTAGGGAGTTCATCTGGAGGGTTCTAAGTGGGAGAA
GGACTATCAACACCACTAGGAATCCAGAGGTGGGATCCTCCCTCATGGCTCTGGCACAGTGTAAATCCAGGGGTG
TAGATGGGGGAACTGTGAATACTTGAACCTCTGTTCCCCCACCCTCCATGCTCCTCACCTGTCTAGGTCTCCTCAG
GGTGGGGGGTGACAGTGCCTTCTCTATTGGGCACAGCCTAGGGTCTTGGGGGTGAGGGGGGAGAAGTTCTTGATT
CAGCCAAATGCAGGGAGGGGAGGCAGATGGAGCCCATAGGCCACCCCCTATCCTCTGAGTGTTTGGAATAAACT
GTGCAATCCCCTC

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FIGURE 1933

MGQVGRQLAIIIGDDINRRYDSEFQTMLQHLQPTAENAYEYFTKIATSLFESGINWGRVVALLGFGYRLALHVVYQH
GLTGFLGQVTRFVVDFMLHHCIARWIAQRGGWVAALNLGNGPILNVLVVLGVVLLGQFVVRREFKS